

REPORT NUMBER: ITL70624

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ISSUE DATE: 11/09/11

PREPARED FOR: EVLUMA

CATALOG NUMBER: OMNIPAR-4K-ME-S-V

LAMP: ONE MEDIUM BASE LED LAMP WITH INTEGRAL LED DRIVER, CAST FINNED DIFFUSE METAL BODY, CAST GRAY-PAINTED METAL TOP, MOLDED BLACK PLASTIC NECK, 16 WHITE LIGHT EMITTING DIODES (LEDS), FABRICATED SEGMENTED REFLECTOR, FROSTED SEMI-HEMISPHERICAL PLASTIC LENS. LAMP VERTICAL BASE-UP POSITION. LAMP NOT DISASSEMBLED FOR INSPECTION AS THIS IS A SEALED UNIT.

TOTAL INPUT WATTS = 46.1 AT 120.0 VOLTS

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LAMP. DIMMER CONTROL KNOB SET TO THE HIGHEST OUTPUT SETTING POSSIBLE FOR THIS TEST.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

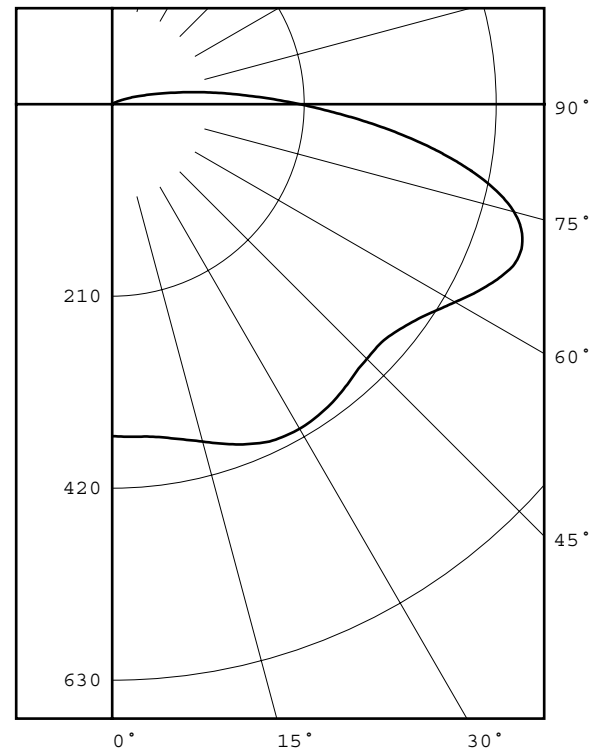
DEG	CANDELA	LUMENS
0	363	
5	365	35
15	382	109
25	407	188
35	407	255
45	394	306
55	409	369
65	460	455
75	455	472
85	299	325
90	205	
95	130	146
105	39	45
115	9	10
125	0	1
135	0	0
145	0	0
155	0	0
165	0	0
175	0	0
180	0	0

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	332	12.2
0- 40	587	21.6
0- 60	1262	46.5
0- 90	2514	92.6
90-120	201	7.4
90-130	201	7.4
90-150	201	7.4
90-180	201	7.4
0-180	2715	100.0

EFFICACY = 58.9 Lm/W

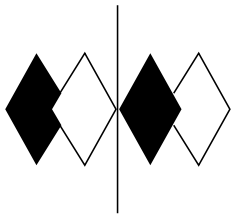
CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 1.67



Checked *N. WHITE*

Approved *R. BEATTIE*
Lighting Engineer



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CANDELA DISTRIBUTION

	0.0
0.0	363
5.0	365
10.0	371
15.0	382
20.0	396
25.0	407
30.0	410
35.0	407
40.0	400
45.0	394
50.0	395
55.0	409
60.0	433
65.0	460
70.0	475
75.0	455
80.0	391
85.0	299
90.0	205
95.0	130
100.0	74
105.0	39
110.0	20
115.0	9
120.0	3
125.0	0
130.0	0
135.0	0
140.0	0
145.0	0
150.0	0
155.0	0
160.0	0
165.0	0
170.0	0
175.0	0
180.0	0



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5-DEGREE
 ZONAL LUMEN SUMMARY

0- 5	9.
5- 10	26.
10- 15	45.
15- 20	64.
20- 25	84.
25- 30	103.
30- 35	120.
35- 40	135.
40- 45	147.
45- 50	159.
50- 55	175.
55- 60	194.
60- 65	217.
65- 70	238.
70- 75	244.
75- 80	228.
80- 85	188.
85- 90	137.
90- 95	91.
95-100	55.
100-105	30.
105-110	15.
110-115	7.
115-120	3.
120-125	1.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

10-DEGREE
 ZONAL LUMEN SUMMARY

0- 10	35.
0- 20	144.
0- 30	332.
0- 40	587.
0- 50	893.
0- 60	1262.
0- 70	1717.
0- 80	2189.
0- 90	2514.
0-100	2660.
0-110	2705.
0-120	2715.
0-130	2715.
0-140	2715.
0-150	2715.
0-160	2715.
0-170	2715.
0-180	2715.



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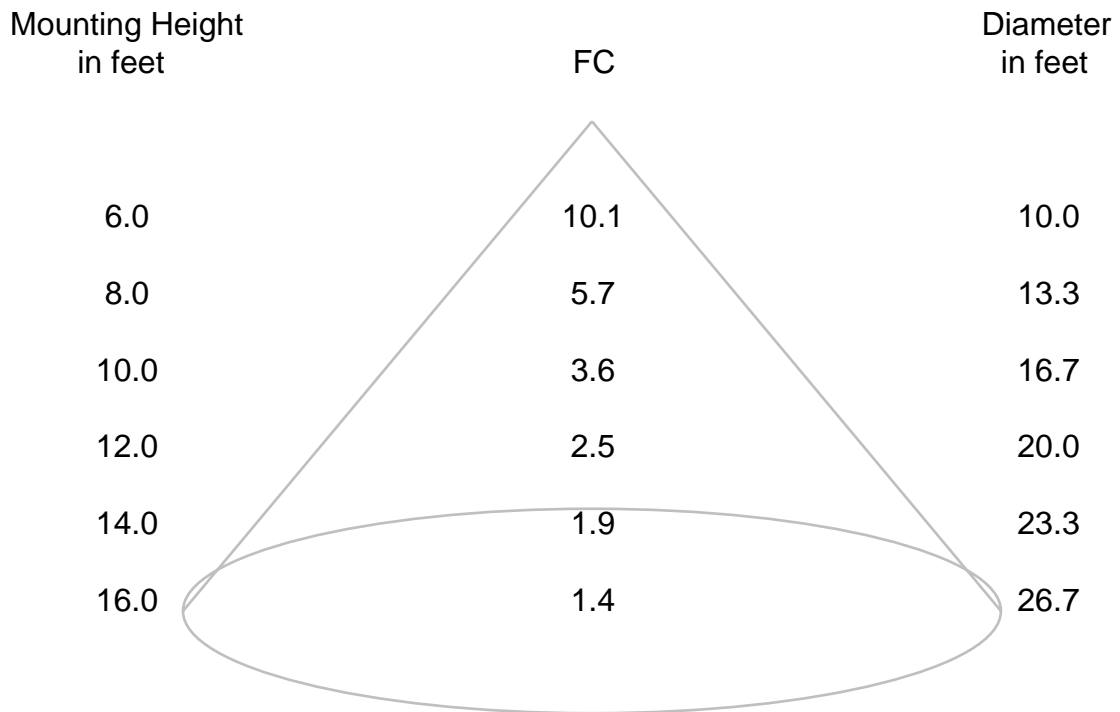
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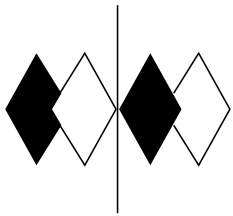
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)





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ADDRESS: 624 RAINIER AVE SOUTH
SEATTLE, WA 98144

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Page 1 of 3

ADDRESS: 624 RAINIER AVE SOUTH
SEATTLE, WA 98144

CATALOG NUMBER: OMNIPAR-4K-ME-S-V

LAMP: ONE MEDIUM BASE LED LAMP WITH INTEGRAL LED DRIVER, CAST FINNED DIFFUSE METAL BODY, CAST GRAY-PAINTED METAL TOP, MOLDED BLACK PLASTIC NECK, 16 WHITE LIGHT EMITTING DIODES (LEDS), FABRICATED SEGMENTED REFLECTOR, FROSTED SEMI-HEMISPHERICAL PLASTIC LENS. LAMP VERTICAL BASE-UP POSITION. LAMP NOT DISASSEMBLED FOR INSPECTION AS THIS IS A SEALED UNIT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60HZ) TO THE LAMP. DIMMER CONTROL KNOB SET TO THE HIGHEST OUTPUT SETTING POSSIBLE FOR THIS TEST.

INSTRUMENTS:	Kikusui PCR500L AC Power Source	Calibration Due:
	Yokogawa WT210 Digital Power Meter #4	N/A
	Optronic Laboratories OL770 Spectroradiometer	03/04/12
	ITL 1.5 Meter Diameter Integrating Sphere, 4π Geometry	03/24/12

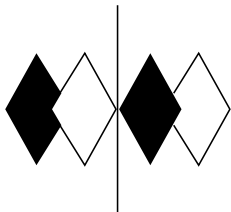
OBJECT OF TEST: Measure the Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRIa,1-14), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and electrical data to the lamp including Power Factor (PF).

PROCEDURE: The lamp was provided by the customer and had an unknown number of burn hours. The lamp was mounted inside the integrating sphere in a vertical base-up position (LEDs facing down) and allowed to stabilize. After stabilization occurred, measurements were taken with the lamp operating in the integrating sphere. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the luminaire operating at 120VAC input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology.

RESULTS: (continued subsequent pages)

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Checked	<i>S BERGER</i>
Approved	<i>N GULLY</i> Lighting Engineer



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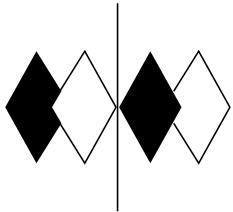


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RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3901
Chromaticity Ordinate y	0.3862
Correlated Color Temp CCT (K)	3818
Color Rendering Index (CRIa)	83
Color Rendering Index 1 (Light greyish red)	82
Color Rendering Index 2 (Dark greyish yellow)	87
Color Rendering Index 3 (Strong yellowish green)	91
Color Rendering Index 4 (Moderate yellowish green)	84
Color Rendering Index 5 (Light bluish green)	82
Color Rendering Index 6 (Light blue)	83
Color Rendering Index 7 (Light violet)	88
Color Rendering Index 8 (Light reddish purple)	70
Color Rendering Index 9 (Strong red)	22
Color Rendering Index 10 (Strong yellow)	69
Color Rendering Index 11 (Strong green)	83
Color Rendering Index 12 (Strong blue)	68
Color Rendering Index 13 (Light yellowish pink (skin))	82
Color Rendering Index 14 (Moderate olive green (leaf))	95
ANSI C78.377-2008 Duv	0.002
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	438
Input Power (Watts)	46.0
Input Power Factor (%)	87.5



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.716	515	28.961	650	29.270
385	0.799	520	30.663	655	26.875
390	0.888	525	32.190	660	24.515
395	0.981	530	33.625	665	22.236
400	1.123	535	34.995	670	20.034
405	1.426	540	36.350	675	17.987
410	2.087	545	37.616	680	16.105
415	3.563	550	38.863	685	14.308
420	6.339	555	40.010	690	12.690
425	11.339	560	41.007	695	11.207
430	17.894	565	41.966	700	9.879
435	25.778	570	42.820	705	8.679
440	34.594	575	43.627	710	7.585
445	40.413	580	44.320	715	6.604
450	34.549	585	44.848	720	5.745
455	23.845	590	45.259	725	4.966
460	17.767	595	45.446	730	4.293
465	14.332	600	45.307	735	3.703
470	11.951	605	44.861	740	3.221
475	11.418	610	44.170	745	2.815
480	12.311	615	43.102	750	2.459
485	14.112	620	41.767	755	2.137
490	16.692	625	40.133	760	1.844
495	19.598	630	38.226	765	1.600
500	22.395	635	36.189	770	1.382
505	24.848	640	34.000	775	1.201
510	27.038	645	31.618	780	1.050

