



8165 E. Kaiser Blvd. Anaheim, CA 92808
 p. 714.282.2270
 f. 714.676.5558

Photometric Test Report

IES ROAD REPORT
PHOTOMETRIC FILENAME : L031601208.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031601208
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 3/14/2016
 [MANUFAC] VIVA RAILINGS
 [LUMCAT] 4000K LED Med/Frost
 [LUMINAIRE] 1.5"L. X 40"W. X 1.25"H. RAIL LIGHT
 [MORE] 4000K LED Med Power Frost
 [BALLASTCAT] N/A
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [TEST CONDITION] CANDELA VALUES ARE GENERATED FROM LIGHT LABORATORY REPORT L031601206
 [MORE] BY USING POWER RATIO OF 0.63 BETWEEN L031601203 AND L031601204.
 [POWER SUPPLY] 12VDC CONSTANT VOLTAGE SOURCE
 [INPUT] 12VDC, 9.70W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	329
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	9.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	124.03
Maximum Candela Angle	0H 0V
Maximum Candela (<90 Degrees Vertical)	124.03
Maximum Candela Angle (<90 Degrees Vertical)	0H 0V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	13.69 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	46.8	N.A.	14.2
FM - Front-Medium (30-60)	83.2	N.A.	25.2
FH - Front-High (60-80)	31.5	N.A.	9.6
FVH - Front-Very High (80-90)	3.2	N.A.	1.0
BL - Back-Low (0-30)	46.8	N.A.	14.2
BM - Back-Medium (30-60)	83.2	N.A.	25.2
BH - Back-High (60-80)	31.5	N.A.	9.6
BVH - Back-Very High (80-90)	3.2	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	329.4	N.A.	100.0
BUG Rating	B0-U0-G0		

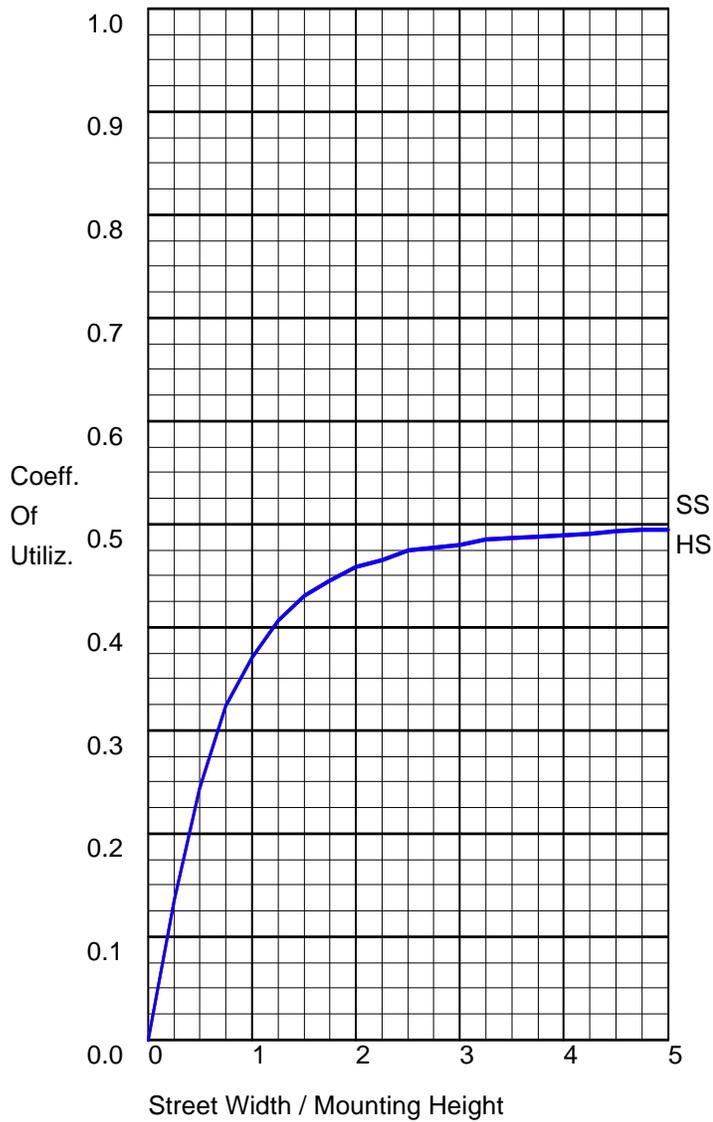
IES ROAD REPORT
PHOTOMETRIC FILENAME : L031601208.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	124.03	124.03	124.03	124.03	124.03	124.03	124.03	124.03	124.03	124.03
5	123.42	123.45	123.48	123.45	123.42	123.42	123.45	123.45	123.48	123.45
10	121.16	121.23	121.23	121.29	121.34	121.39	121.45	121.55	121.58	121.63
15	116.50	116.50	116.63	116.76	116.92	117.16	117.40	117.64	117.93	118.22
20	109.68	109.73	109.90	110.16	110.48	110.82	111.27	111.77	112.25	112.80
25	101.70	101.83	101.99	102.36	102.76	103.39	104.00	104.74	105.46	106.19
30	93.45	93.48	93.61	93.90	94.30	94.83	95.51	96.28	97.26	98.32
35	85.95	85.98	86.03	86.16	86.40	86.71	87.19	87.77	88.59	89.62
40	79.24	79.26	79.29	79.26	79.34	79.34	79.52	79.85	80.32	80.93
45	72.58	72.58	72.53	72.49	72.44	72.39	72.39	72.36	72.47	72.76
50	65.33	65.33	65.33	65.26	65.12	64.99	64.91	64.81	64.75	64.78
55	57.67	57.67	57.61	57.56	57.46	57.38	57.22	57.03	56.88	56.77
60	49.80	49.77	49.69	49.66	49.56	49.45	49.32	49.16	48.98	48.79
65	41.02	40.99	41.02	40.97	40.86	40.75	40.62	40.49	40.31	40.12
70	31.87	31.90	31.87	31.80	31.74	31.66	31.58	31.42	31.27	31.08
75	22.67	22.71	22.67	22.67	22.60	22.52	22.49	22.31	22.15	21.99
80	13.69	13.69	13.66	13.66	13.58	13.51	13.40	13.32	13.22	13.11
85	6.19	6.16	6.13	6.10	6.05	6.00	5.87	5.76	5.66	5.50
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	
0	124.03	124.03	124.03	124.03	124.03	124.03	124.03	124.03	124.03	
5	123.48	123.42	123.51	123.51	123.51	123.48	123.51	123.48	123.48	
10	121.68	121.71	121.73	121.76	121.68	121.71	121.68	121.68	121.73	
15	118.51	118.64	118.69	118.77	118.80	118.80	118.77	118.77	118.77	
20	113.31	113.80	114.12	114.41	114.57	114.57	114.60	114.57	114.55	
25	106.94	107.62	108.28	108.84	109.18	109.34	109.37	109.34	109.31	
30	99.38	100.35	101.30	102.15	102.81	103.23	103.29	103.26	103.34	
35	90.84	92.00	93.19	94.30	95.20	95.89	96.18	96.18	96.15	
40	81.91	83.12	84.45	85.74	86.88	87.85	88.35	88.48	88.33	
45	73.24	74.08	75.30	76.67	77.99	79.08	79.79	80.00	79.92	
50	64.94	65.31	66.07	67.27	68.48	69.67	70.54	70.83	70.78	
55	56.74	56.83	57.09	57.80	58.83	59.91	60.81	61.21	61.16	
60	48.58	48.47	48.52	48.76	49.37	50.24	50.99	51.46	51.43	
65	39.91	39.65	39.54	39.49	39.70	40.12	40.67	41.07	41.07	
70	30.82	30.50	30.32	30.13	30.10	30.16	30.39	30.63	30.61	
75	21.78	21.59	21.33	21.12	20.85	20.70	20.72	20.83	20.77	
80	12.98	12.82	12.58	12.40	12.16	11.92	11.68	11.60	11.63	
85	5.37	5.20	5.05	4.86	4.71	4.55	4.36	4.15	4.12	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

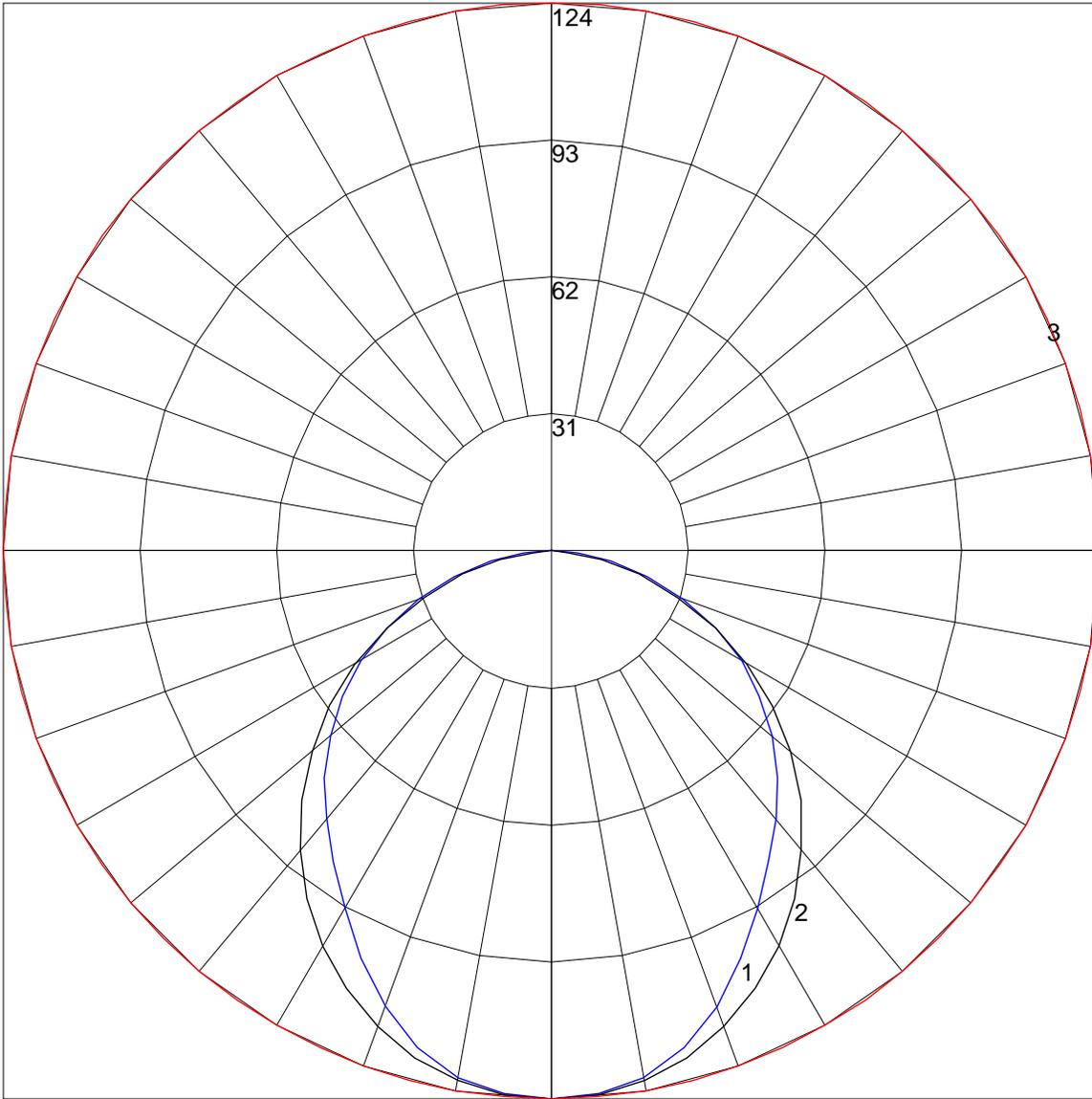
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

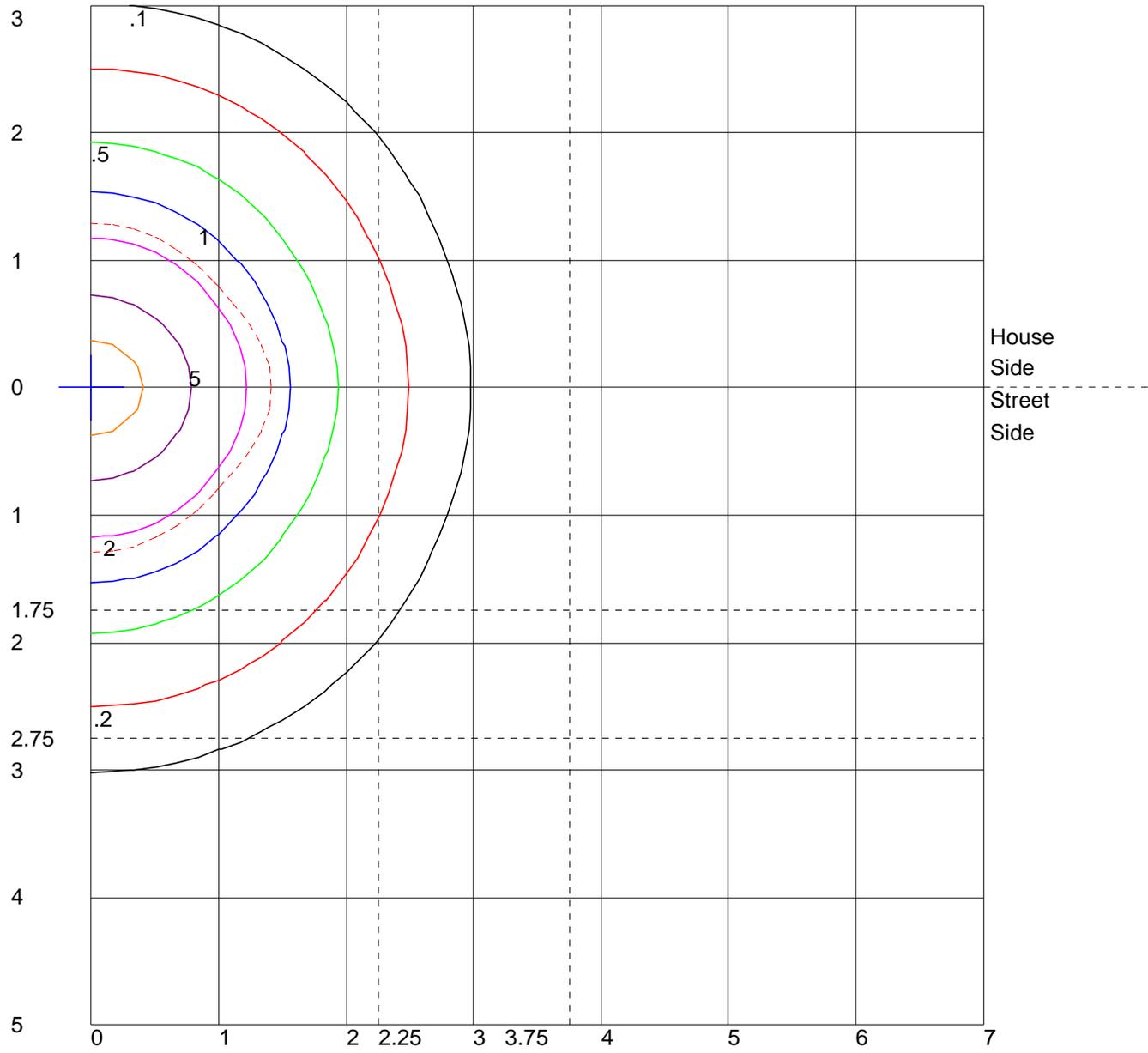
	Lumens	Percent Of Luminaire
Downward Street Side	164.7	50.0
Downward House Side	164.7	50.0
Downward Total	329.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	329.4	100.0

POLAR GRAPH



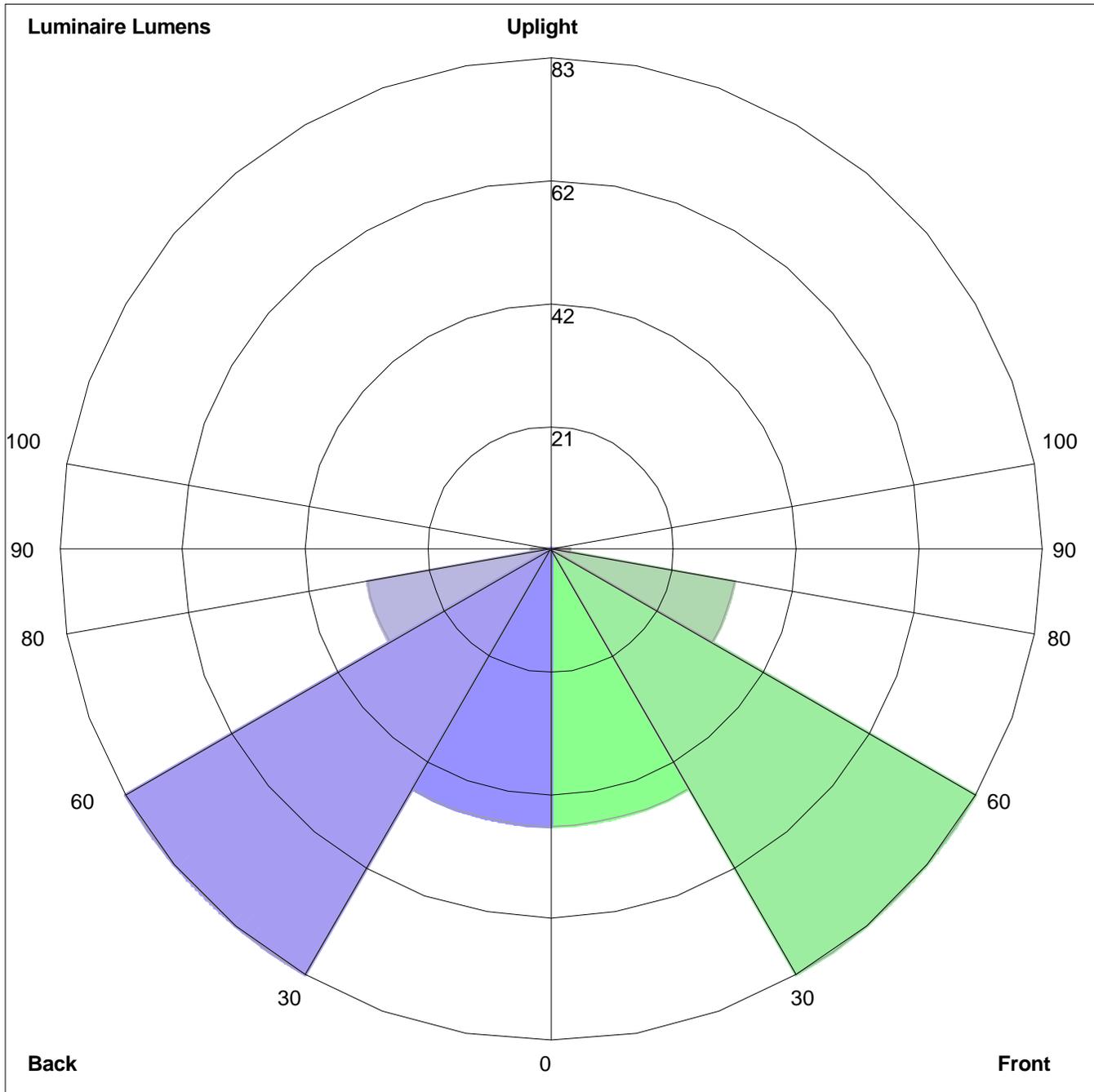
Maximum Candela = 124.03 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 3 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=46.8, Medium=83.2, High=31.5, Very High=3.2
Back: Low=46.8, Medium=83.2, High=31.5, Very High=3.2
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G0