



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11685
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/06/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-5W-LED-10L-30
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9141
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4806
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	4806
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	9 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	573 (6.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	284.1	N.A.	3.1
FM - Front-Medium (30-60)	1954.4	N.A.	21.4
FH - Front-High (60-80)	2278.3	N.A.	24.9
FVH - Front-Very High (80-90)	45.0	N.A.	0.5
BL - Back-Low (0-30)	284.1	N.A.	3.1
BM - Back-Medium (30-60)	1954.4	N.A.	21.4
BH - Back-High (60-80)	2278.3	N.A.	24.9
BVH - Back-Very High (80-90)	45.0	N.A.	0.5
UL - Uplight-Low (90-100)	6.2	N.A.	0.1
UH - Uplight-High (100-180)	11.0	N.A.	0.1
Total	9140.8	N.A.	100.0
BUG Rating	B3-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	475	475	475	475	475	475	475	475	475	475
2.5	473	474	475	475	477	475	474	471	469	470
5.0	448	445	448	457	455	451	447	448	440	444
7.5	448	441	443	441	434	432	447	453	467	455
10.0	447	446	444	430	442	447	460	462	477	476
12.5	498	490	486	473	478	470	479	495	497	502
15.0	541	528	518	530	531	521	518	522	538	549
17.5	572	573	561	571	585	588	570	563	584	588
20.0	626	636	620	635	641	641	639	610	628	654
22.5	681	677	689	700	709	717	723	688	691	729
25.0	742	738	754	771	791	796	827	804	761	797
27.5	833	823	846	869	883	904	921	930	854	874
30.0	897	900	909	956	981	1024	1055	1040	963	948
32.5	1028	1020	1026	1049	1102	1163	1190	1167	1075	1034
35.0	1111	1126	1128	1167	1224	1312	1329	1297	1202	1125
37.5	1253	1257	1241	1257	1368	1435	1469	1435	1340	1227
40.0	1332	1340	1372	1404	1503	1596	1608	1566	1460	1303
42.5	1411	1421	1447	1518	1653	1713	1734	1679	1552	1379
45.0	1491	1506	1527	1618	1758	1823	1826	1771	1645	1457
47.5	1575	1594	1625	1708	1842	1903	1908	1863	1745	1552
50.0	1671	1691	1720	1789	1920	1983	1995	1957	1847	1656
52.5	1774	1794	1824	1888	2005	2067	2087	2062	1959	1765
55.0	1889	1905	1931	1994	2094	2163	2185	2178	2078	1878
57.5	2017	2040	2067	2116	2195	2293	2303	2314	2227	2019
60.0	2184	2202	2241	2281	2364	2483	2480	2494	2394	2194
62.5	2349	2368	2436	2527	2650	2789	2751	2748	2628	2401
65.0	2529	2557	2637	2789	3026	3242	3161	3078	2909	2639
67.5	2575	2614	2764	3066	3513	3887	3685	3471	3234	2893
70.0	2168	2206	2457	2991	4013	4806	4352	3680	3011	2462
72.5	1259	1354	1634	2206	3398	4666	3754	2687	1911	1453
75.0	417	447	618	1117	2264	3361	2393	1364	808	628
77.5	212	216	271	411	934	1561	1038	589	361	280
80.0	100	100	121	186	363	573	437	251	155	134
82.5	64	62	67	86	135	205	147	113	92	92
85.0	42	41	41	51	70	84	76	67	57	58
87.5	23	22	23	26	32	35	31	27	25	23
90.0	5	6	7	7	8	9	7	7	6	5
92.5	5	5	5	5	7	8	8	7	6	5
95.0	5	5	5	5	6	8	7	6	5	5
97.5	4	4	5	5	5	7	6	5	5	4
100.0	3	3	4	4	5	5	5	5	4	3
102.5	3	3	3	4	4	4	4	4	3	3
105.0	3	3	3	3	3	4	4	3	3	2
107.5	3	3	3	3	3	3	3	3	3	2
110.0	3	3	3	3	3	3	3	3	3	2
112.5	2	2	3	3	3	3	3	3	3	2
115.0	2	2	3	3	3	3	3	3	3	2
117.5	3	3	3	3	4	3	3	3	3	3
120.0	3	3	3	3	4	4	3	3	3	3
122.5	3	3	3	4	4	4	3	3	3	3
125.0	3	3	3	4	4	4	3	3	3	3
127.5	3	3	3	4	4	4	3	3	3	3
130.0	3	3	3	3	3	3	3	3	3	3

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CANDELA TABULATION - (Cont.)

132.5	3	3	3	3	3	3	3	3	3	3
135.0	2	2	3	3	3	2	2	2	3	3
137.5	1	1	2	1	1	1	1	1	1	1
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	1	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	1	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

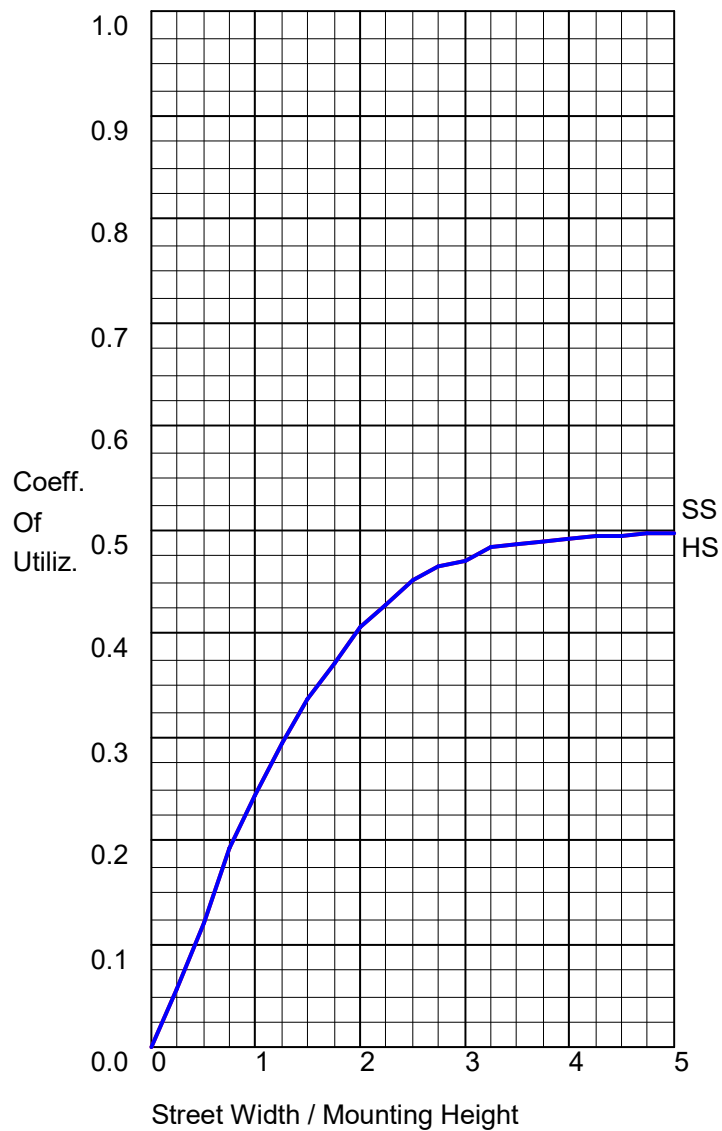
	90
0.0	475
2.5	474
5.0	447
7.5	459
10.0	475
12.5	511
15.0	552
17.5	594
20.0	647
22.5	714
25.0	796
27.5	866
30.0	959
32.5	1036
35.0	1129
37.5	1233
40.0	1310
42.5	1382
45.0	1461
47.5	1541
50.0	1638
52.5	1729
55.0	1834
57.5	1961
60.0	2129
62.5	2311
65.0	2541
67.5	2761
70.0	2344
72.5	1372
75.0	599
77.5	276

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CANDELA TABULATION - (Cont.)

80.0	136
82.5	90
85.0	55
87.5	21
90.0	4
92.5	4
95.0	4
97.5	3
100.0	3
102.5	2
105.0	2
107.5	2
110.0	2
112.5	2
115.0	3
117.5	3
120.0	3
122.5	3
125.0	3
127.5	3
130.0	3
132.5	3
135.0	3
137.5	1
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	0

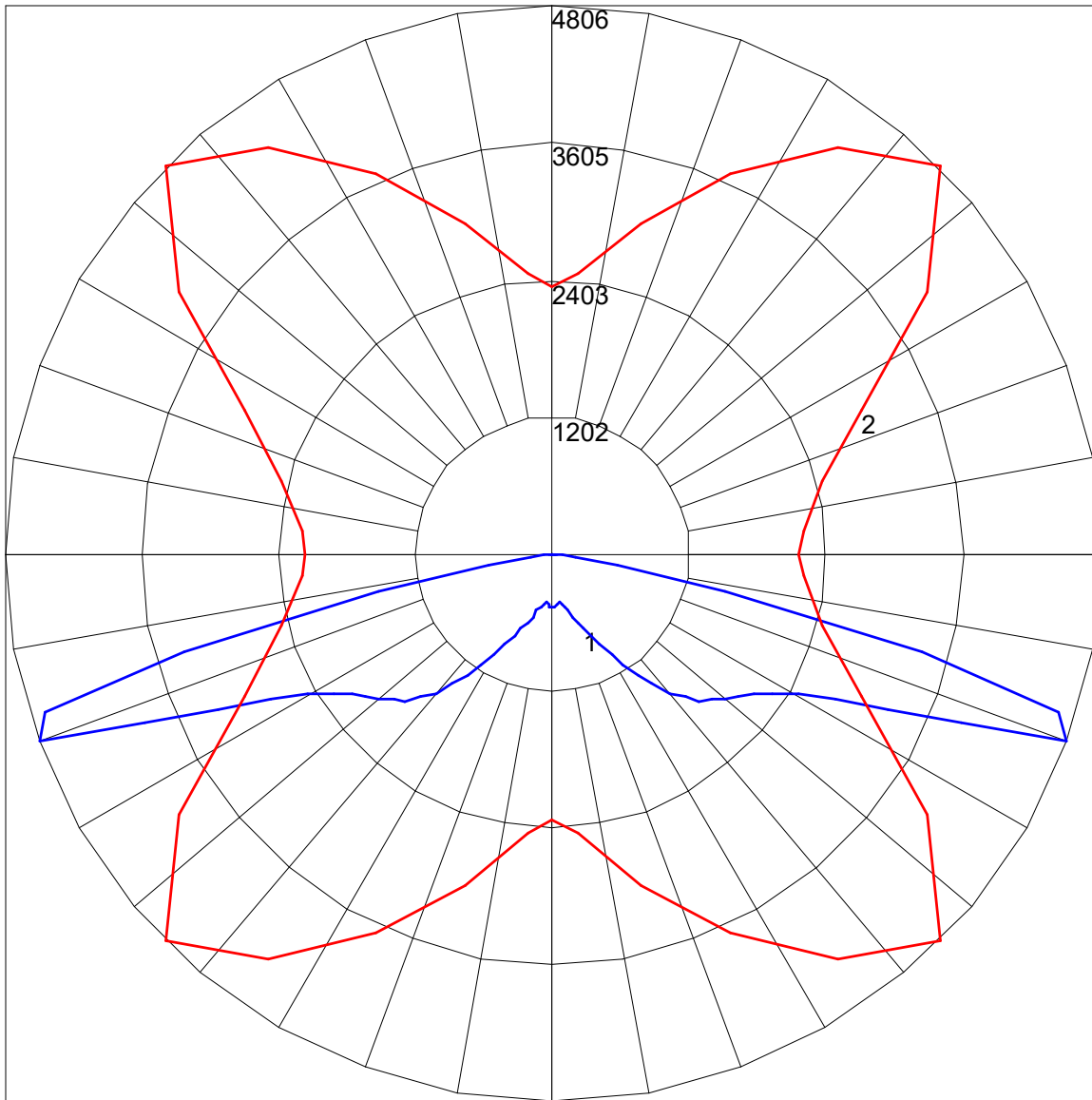
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

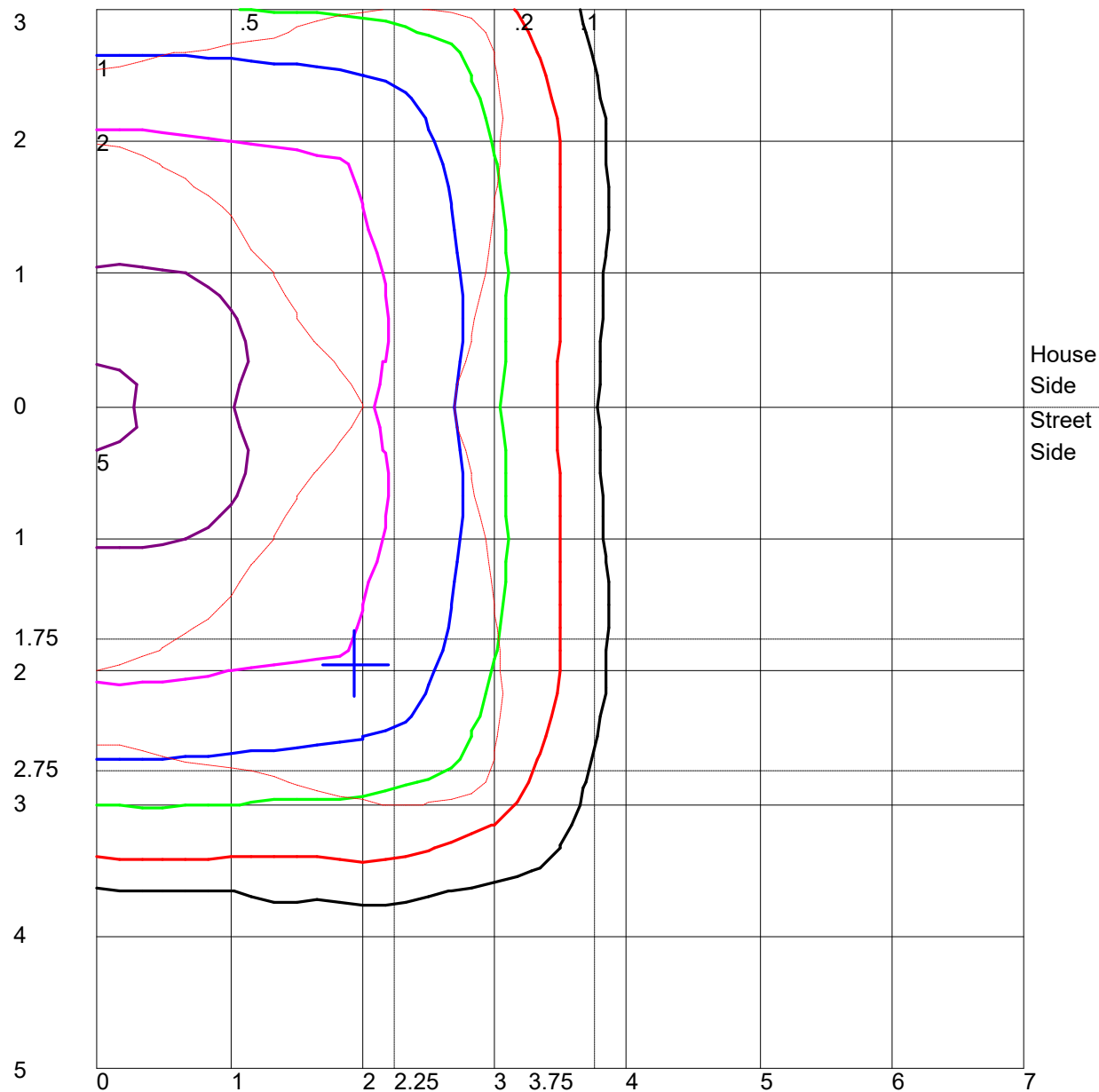
	Lumens	Percent Of Luminaire
Downward Street Side	4561.8	49.9
Downward House Side	4561.8	49.9
Downward Total	9123.6	99.8
Upward Street Side	8.6	0.1
Upward House Side	8.6	0.1
Upward Total	17.2	0.2
Total Flux	9140.8	100.0

POLAR GRAPH



Maximum Candela = 4806 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



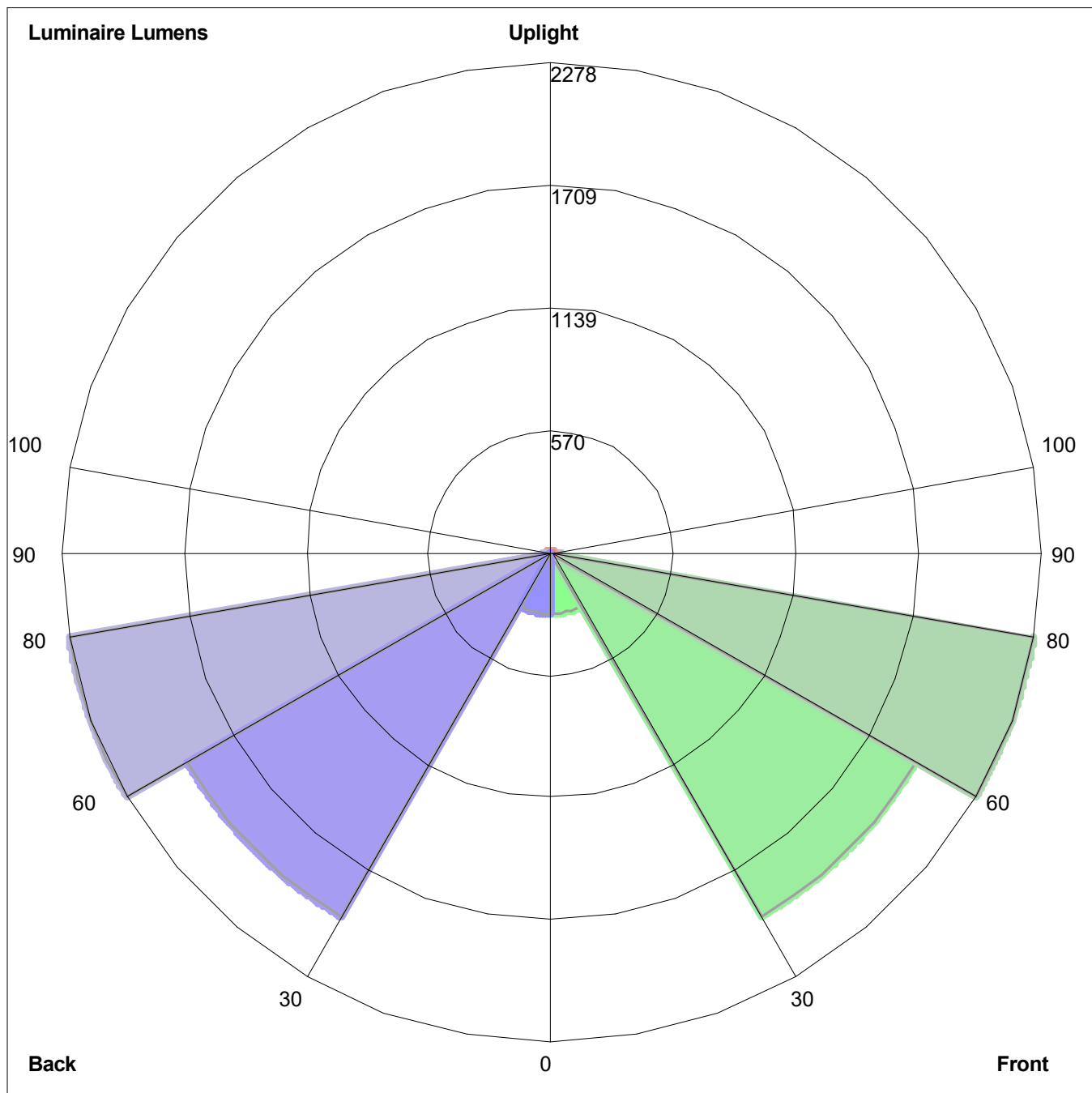
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=284.1, Medium=1954.4, High=2278.3, Very High=45.0
Back: Low=284.1, Medium=1954.4, High=2278.3, Very High=45.0
Uplight: Low=6.2, High=11.0

BUG Rating : B3-U2-G2