

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P257008

Luminaire Tested: **HGL-S-BF-40L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-40L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7774.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

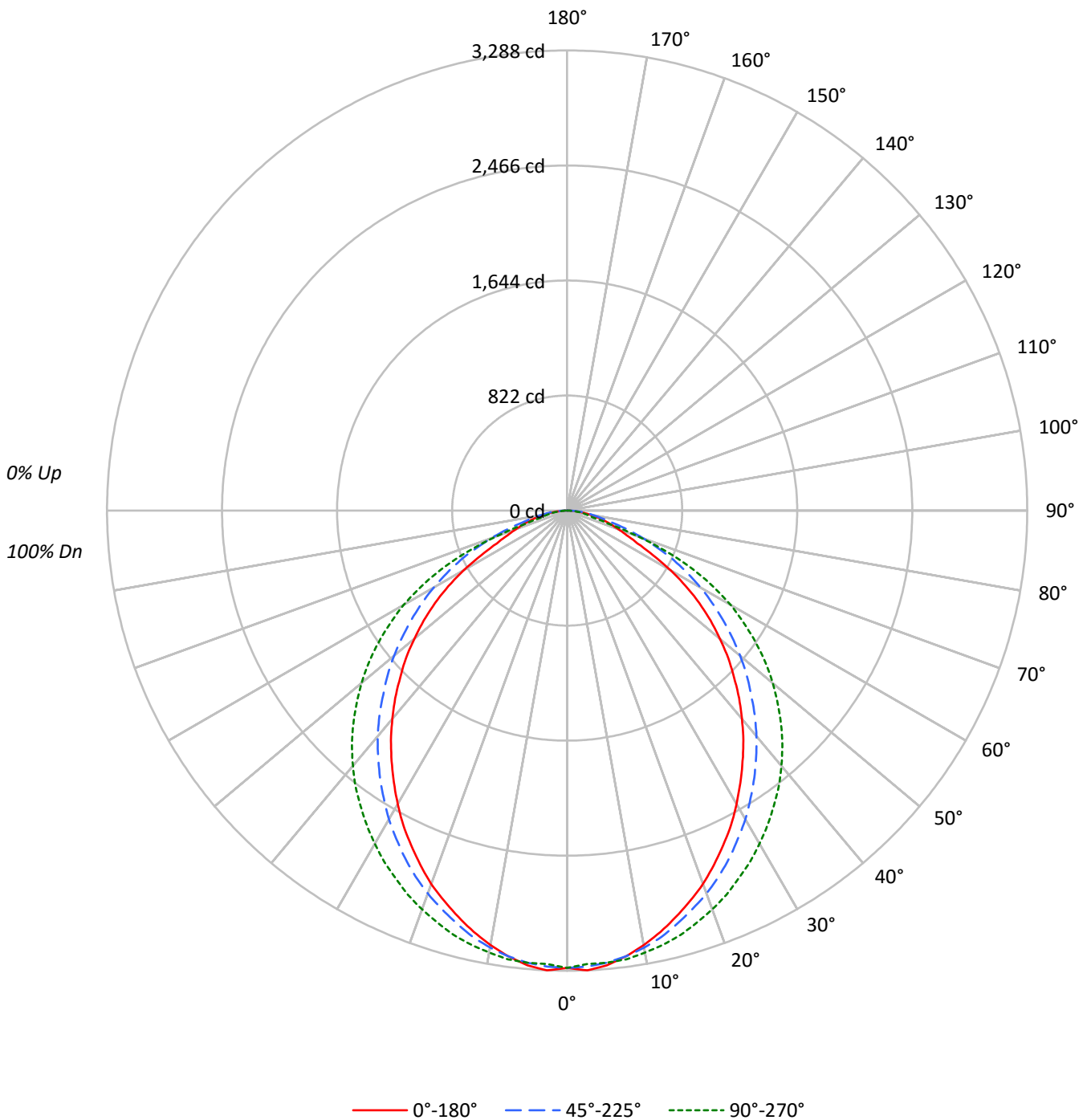
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64					62				
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49					47				
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12788	12788	12788
5°	12812	12707	12694
10°	12529	12533	12649
15°	12175	12269	12567
20°	11824	11991	12433
25°	11388	11663	12273
30°	10937	11308	12120
35°	10440	10896	11937
40°	9917	10478	11740
45°	9326	9971	11467
50°	8664	9473	11103
55°	7861	8869	10581
60°	6685	8182	9818
65°	5123	7315	8416
70°	4435	6090	5447
75°	4086	4523	2545
80°	3648	3629	2176
85°	3083	3082	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	3.9
10°-20°	861.1	11.1
20°-30°	1263.0	16.2
30°-40°	1464.7	18.8
40°-50°	1450.1	18.7
50°-60°	1223.7	15.7
60°-70°	793.0	10.2
70°-80°	320.8	4.1
80°-90°	89.0	1.1
90°-100°	2.1	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2431.1	31.3
0°-40°	3895.8	50.1
0°-60°	6569.6	84.5
0°-90°	7772.5	100.0
90°-120°	2.1	0.0
90°-150°	2.1	0.0
90°-180°	2.0	0.0
0°-180°	7774.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3267	3267	3267	3267	3267	
5°	3261	3228	3243	3240	3243	308
15°	3005	2990	3053	3108	3138	846
25°	2638	2638	2740	2824	2900	1214
35°	2186	2201	2331	2454	2574	1367
45°	1686	1722	1858	2014	2162	1302
55°	1153	1214	1358	1518	1647	1025
65°	554	641	843	946	994	575
75°	271	283	334	274	196	288
85°	69	81	93	75	54	76
90°	0	12	21	15	0	4
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3267.1	3267.1	3267.1	3267.1	3267.1
2.5°	3288.2	3252.0	3261.1	3255.1	3243.0
5°	3261.1	3228.0	3243.0	3240.0	3243.0
7.5°	3212.9	3185.8	3212.9	3221.9	3234.0
10°	3152.7	3131.6	3170.7	3191.8	3206.9
12.5°	3083.4	3065.4	3119.6	3152.7	3176.8
15°	3005.1	2990.1	3053.3	3107.5	3137.6
17.5°	2923.8	2911.8	2984.1	3053.3	3086.4
20°	2839.5	2827.5	2911.8	2981.0	3032.2
22.5°	2740.1	2734.1	2830.5	2902.8	2972.0
25°	2637.8	2637.8	2740.1	2824.5	2899.7
27.5°	2535.4	2535.4	2643.8	2737.1	2830.5
30°	2421.0	2430.0	2547.4	2649.8	2749.2
32.5°	2303.5	2318.6	2439.0	2553.5	2664.9
35°	2186.1	2201.2	2330.6	2454.1	2574.5
37.5°	2068.7	2089.7	2219.2	2348.7	2484.2
40°	1942.2	1969.3	2104.8	2240.3	2381.8
42.5°	1818.7	1848.8	1984.3	2128.9	2276.4
45°	1686.2	1722.4	1857.9	2014.5	2162.0
47.5°	1562.8	1598.9	1740.4	1894.0	2041.6
50°	1424.3	1469.4	1614.0	1773.6	1918.1
52.5°	1291.8	1343.0	1484.5	1647.1	1788.6
55°	1153.3	1213.5	1358.0	1517.6	1647.1
57.5°	1005.7	1078.0	1228.6	1382.1	1499.6
60°	855.2	942.5	1102.1	1243.6	1349.0
62.5°	692.6	794.9	969.6	1102.1	1177.4
65°	554.1	641.4	843.1	945.5	993.7
67.5°	460.7	511.9	704.6	779.9	779.9
70°	388.4	415.5	578.1	596.2	533.0
72.5°	328.2	343.3	451.7	406.5	304.1
75°	271.0	283.0	334.2	274.0	195.7
77.5°	216.8	225.8	252.9	207.8	153.6
80°	162.6	174.6	189.7	159.6	120.4
82.5°	114.4	123.5	141.5	117.4	87.3
85°	69.3	81.3	93.3	75.3	54.2
87.5°	30.1	39.1	51.2	39.1	24.1
90°	0.0	12.0	21.1	15.1	0.0
92.5°	0.0	0.0	3.0	3.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	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	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	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
157.5°	0.0	0.0	0.0	0.0	0.0
160°	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
167.5°	0.0	0.0	0.0	0.0	0.0
170°	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
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)