

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: P256974

Luminaire Tested: **HGL-S-BF-50L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256974
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-50L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8593.6 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

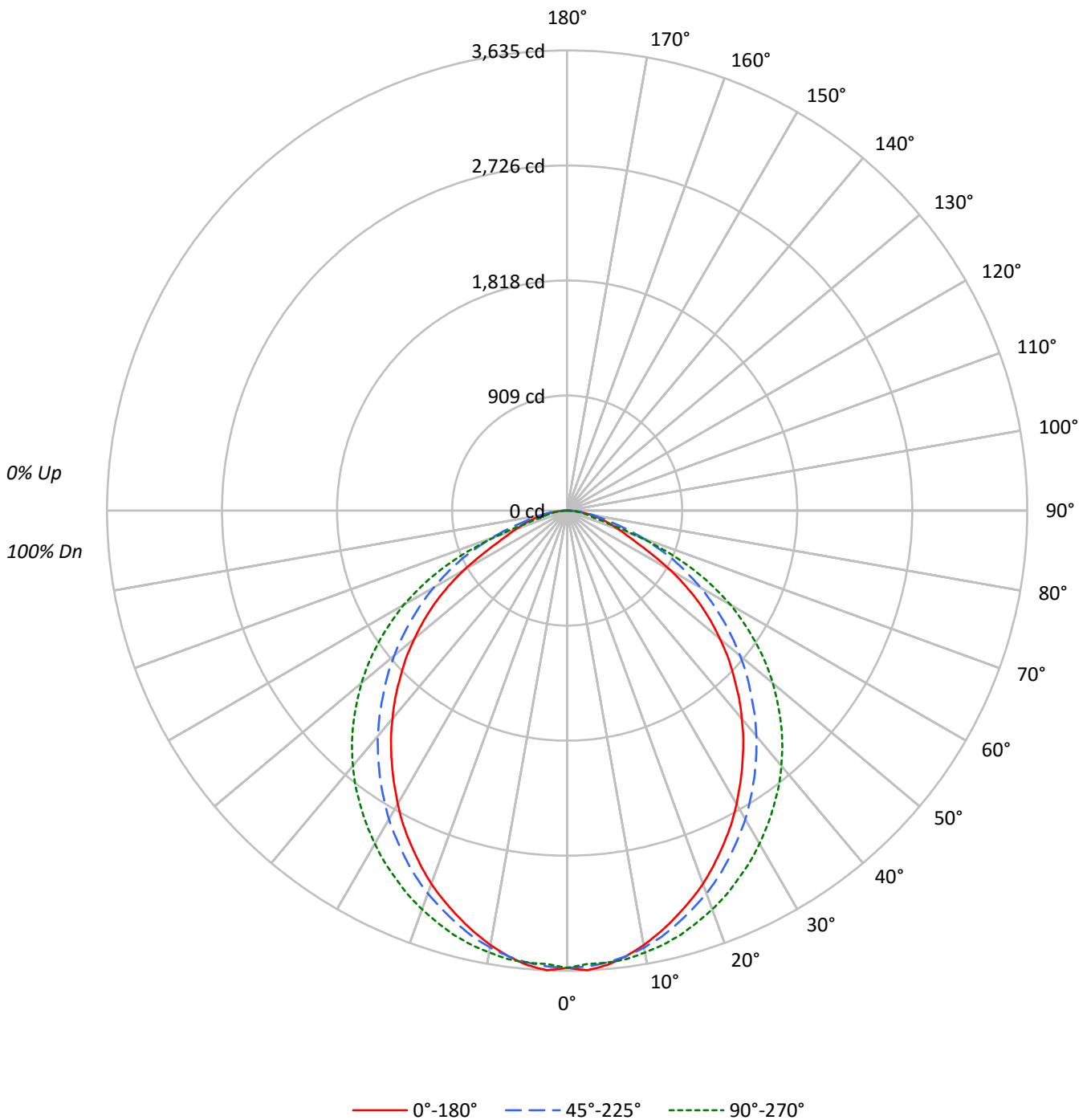
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21203	21203	21203
5°	21242	21068	21047
10°	20771	20779	20971
15°	20184	20341	20837
20°	19602	19880	20614
25°	18877	19335	20350
30°	18129	18746	20095
35°	17304	18063	19792
40°	16437	17368	19465
45°	15457	16527	19013
50°	14358	15701	18409
55°	13026	14699	17543
60°	11076	13559	16279
65°	8485	12121	13954
70°	7346	10089	9030
75°	6765	7492	4220
80°	6033	6009	3607
85°	5087	5101	2692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	3.9
10°-20°	951.8	11.1
20°-30°	1396.1	16.2
30°-40°	1619.0	18.8
40°-50°	1602.9	18.7
50°-60°	1352.6	15.7
60°-70°	876.5	10.2
70°-80°	354.6	4.1
80°-90°	98.4	1.1
90°-100°	2.3	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°	2687.2	31.3
0°-40°	4306.2	50.1
0°-60°	7261.7	84.5
0°-90°	8591.3	100.0
90°-120°	2.3	0.0
90°-150°	2.3	0.0
90°-180°	2.0	0.0
0°-180°	8593.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3611	3611	3611	3611	3611	
5°	3605	3568	3585	3581	3585	340
15°	3322	3305	3375	3435	3468	936
25°	2916	2916	3029	3122	3205	1342
35°	2416	2433	2576	2713	2846	1511
45°	1864	1904	2054	2227	2390	1439
55°	1275	1341	1501	1678	1821	1133
65°	612	709	932	1045	1098	636
75°	300	313	369	303	216	318
85°	77	90	103	83	60	84
90°	0	13	23	17	0	5
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°	3611.3	3611.3	3611.3	3611.3	3611.3
2.5°	3634.6	3594.6	3604.6	3598.0	3584.7
5°	3604.6	3568.0	3584.7	3581.3	3584.7
7.5°	3551.4	3521.4	3551.4	3561.4	3574.7
10°	3484.8	3461.5	3504.8	3528.1	3544.7
12.5°	3408.2	3388.3	3448.2	3484.8	3511.4
15°	3321.7	3305.1	3375.0	3434.9	3468.2
17.5°	3231.8	3218.5	3298.4	3375.0	3411.6
20°	3138.7	3125.3	3218.5	3295.1	3351.7
22.5°	3028.8	3022.2	3128.7	3208.5	3285.1
25°	2915.6	2915.6	3028.8	3122.0	3205.2
27.5°	2802.5	2802.5	2922.3	3025.5	3128.7
30°	2676.0	2686.0	2815.8	2929.0	3038.8
32.5°	2546.2	2562.8	2696.0	2822.5	2945.6
35°	2416.4	2433.0	2576.2	2712.6	2845.8
37.5°	2286.6	2309.9	2453.0	2596.1	2745.9
40°	2146.8	2176.8	2326.5	2476.3	2632.7
42.5°	2010.3	2043.6	2193.4	2353.2	2516.2
45°	1863.9	1903.8	2053.6	2226.7	2389.8
47.5°	1727.4	1767.4	1923.8	2093.5	2256.6
50°	1574.3	1624.2	1784.0	1960.4	2120.2
52.5°	1427.9	1484.5	1640.9	1820.6	1977.1
55°	1274.8	1341.3	1501.1	1677.5	1820.6
57.5°	1111.7	1191.6	1358.0	1527.7	1657.5
60°	945.3	1041.8	1218.2	1374.6	1491.1
62.5°	765.5	878.7	1071.7	1218.2	1301.4
65°	612.4	708.9	931.9	1045.1	1098.4
67.5°	509.2	565.8	778.8	862.0	862.0
70°	429.4	459.3	639.0	659.0	589.1
72.5°	362.8	379.4	499.3	449.3	336.2
75°	299.6	312.9	369.4	302.9	216.3
77.5°	239.6	249.6	279.6	229.7	169.7
80°	179.7	193.0	209.7	176.4	133.1
82.5°	126.5	136.5	156.4	129.8	96.5
85°	76.6	89.9	103.2	83.2	59.9
87.5°	33.3	43.3	56.6	43.3	26.6
90°	0.0	13.3	23.3	16.6	0.0
92.5°	0.0	0.0	3.3	3.3	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)