

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: P257000

Luminaire Tested: **HGL-S-BF-60L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257000
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-60L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15575.6 lumens
Efficiency: N/A
Efficacy: 109.7 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

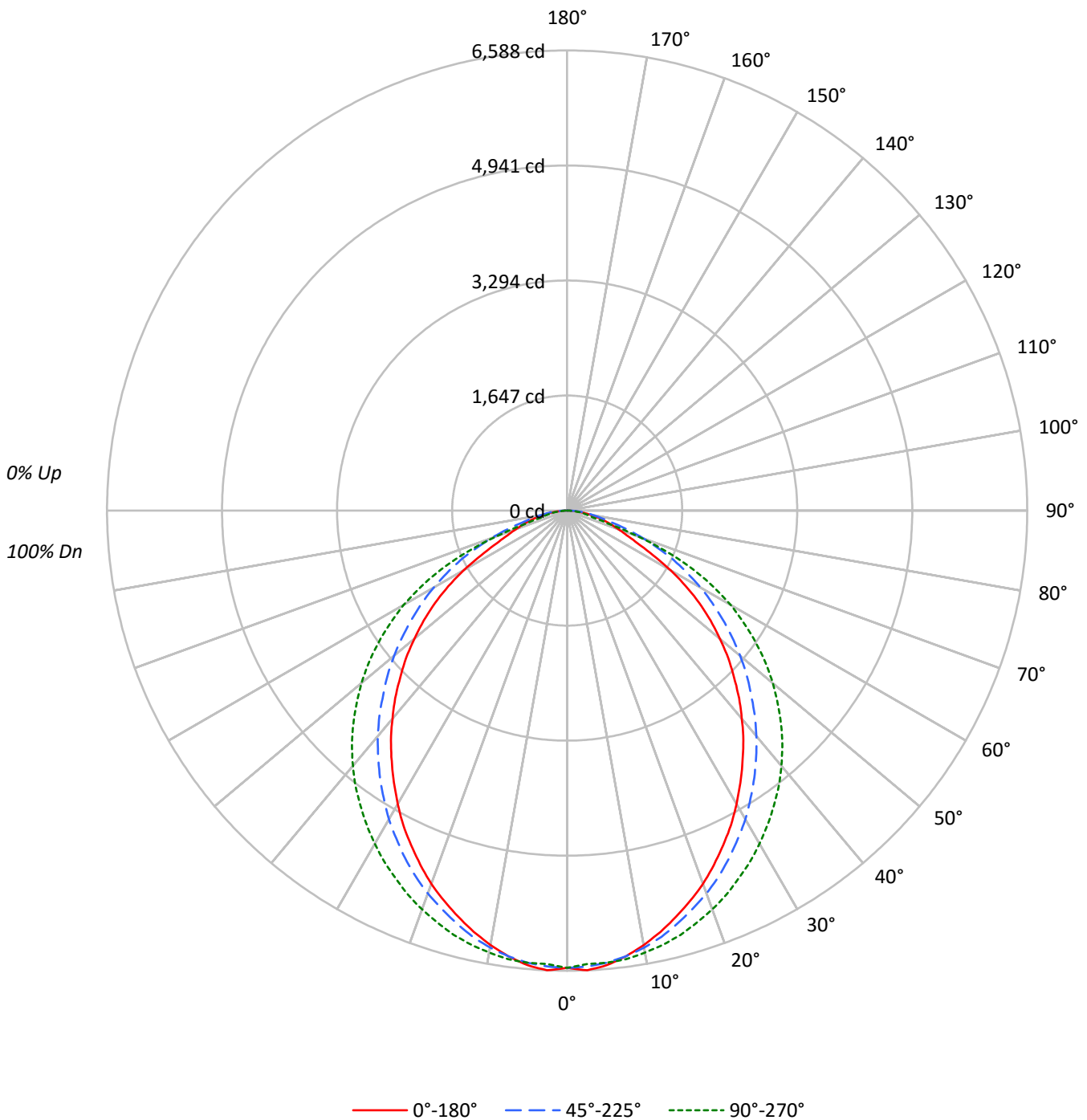
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25619	25619	25619
5°	25668	25458	25431
10°	25100	25108	25340
15°	24391	24580	25177
20°	23688	24024	24908
25°	22814	23366	24589
30°	21911	22655	24281
35°	20915	21830	23915
40°	19867	20992	23521
45°	18684	19975	22974
50°	17358	18979	22243
55°	15748	17768	21197
60°	13393	16391	19670
65°	10262	14656	16859
70°	8886	12202	10912
75°	8185	9063	5099
80°	7309	7271	4360
85°	6170	6178	3254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	3.9
10°-20°	1725.0	11.1
20°-30°	2530.3	16.2
30°-40°	2934.4	18.8
40°-50°	2905.2	18.7
50°-60°	2451.5	15.7
60°-70°	1588.7	10.2
70°-80°	642.7	4.1
80°-90°	178.3	1.1
90°-100°	4.1	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°	4870.6	31.3
0°-40°	7804.9	50.1
0°-60°	13161.7	84.5
0°-90°	15571.4	100.0
90°-120°	4.1	0.0
90°-150°	4.1	0.0
90°-180°	4.0	0.0
0°-180°	15575.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6545	6545	6545	6545	6545	
5°	6533	6467	6497	6491	6497	616
15°	6020	5990	6117	6226	6286	1696
25°	5284	5284	5490	5659	5809	2433
35°	4380	4410	4669	4916	5158	2738
45°	3378	3451	3722	4036	4331	2608
55°	2310	2431	2721	3040	3300	2053
65°	1110	1285	1689	1894	1991	1152
75°	543	567	670	549	392	577
85°	139	163	187	151	109	153
90°	0	24	42	30	0	8
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°	6545.3	6545.3	6545.3	6545.3	6545.3
2.5°	6587.6	6515.2	6533.3	6521.2	6497.1
5°	6533.3	6466.9	6497.1	6491.0	6497.1
7.5°	6436.8	6382.5	6436.8	6454.9	6479.0
10°	6316.1	6273.9	6352.3	6394.5	6424.7
12.5°	6177.4	6141.2	6249.7	6316.1	6364.4
15°	6020.5	5990.3	6117.0	6225.6	6285.9
17.5°	5857.6	5833.5	5978.3	6117.0	6183.4
20°	5688.7	5664.6	5833.5	5972.2	6074.8
22.5°	5489.6	5477.6	5670.6	5815.4	5954.1
25°	5284.5	5284.5	5489.6	5658.6	5809.4
27.5°	5079.4	5079.4	5296.6	5483.6	5670.6
30°	4850.2	4868.3	5103.6	5308.7	5507.7
32.5°	4614.9	4645.1	4886.4	5115.6	5338.8
35°	4379.6	4409.8	4669.2	4916.5	5157.8
37.5°	4144.4	4186.6	4446.0	4705.4	4976.9
40°	3891.0	3945.3	4216.8	4488.2	4771.8
42.5°	3643.7	3704.0	3975.5	4265.0	4560.6
45°	3378.2	3450.6	3722.1	4035.8	4331.4
47.5°	3130.9	3203.3	3486.8	3794.5	4090.1
50°	2853.4	2943.9	3233.5	3553.2	3842.7
52.5°	2588.0	2690.5	2974.1	3299.8	3583.3
55°	2310.5	2431.1	2720.7	3040.4	3299.8
57.5°	2014.9	2159.7	2461.3	2769.0	3004.2
60°	1713.3	1888.2	2207.9	2491.5	2702.6
62.5°	1387.5	1592.6	1942.5	2207.9	2358.7
65°	1110.0	1284.9	1689.1	1894.2	1990.7
67.5°	923.0	1025.5	1411.6	1562.4	1562.4
70°	778.2	832.5	1158.3	1194.4	1067.8
72.5°	657.6	687.7	904.9	814.4	609.3
75°	542.9	567.1	669.6	549.0	392.1
77.5°	434.3	452.4	506.7	416.2	307.7
80°	325.8	349.9	380.1	319.7	241.3
82.5°	229.2	247.3	283.5	235.3	174.9
85°	138.7	162.9	187.0	150.8	108.6
87.5°	60.3	78.4	102.6	78.4	48.3
90°	0.0	24.1	42.2	30.2	0.0
92.5°	0.0	0.0	6.0	6.0	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)