

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: NEO-RAY

Report Number: P335116

Luminaire Tested: **S125IW-S770U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S770U840-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

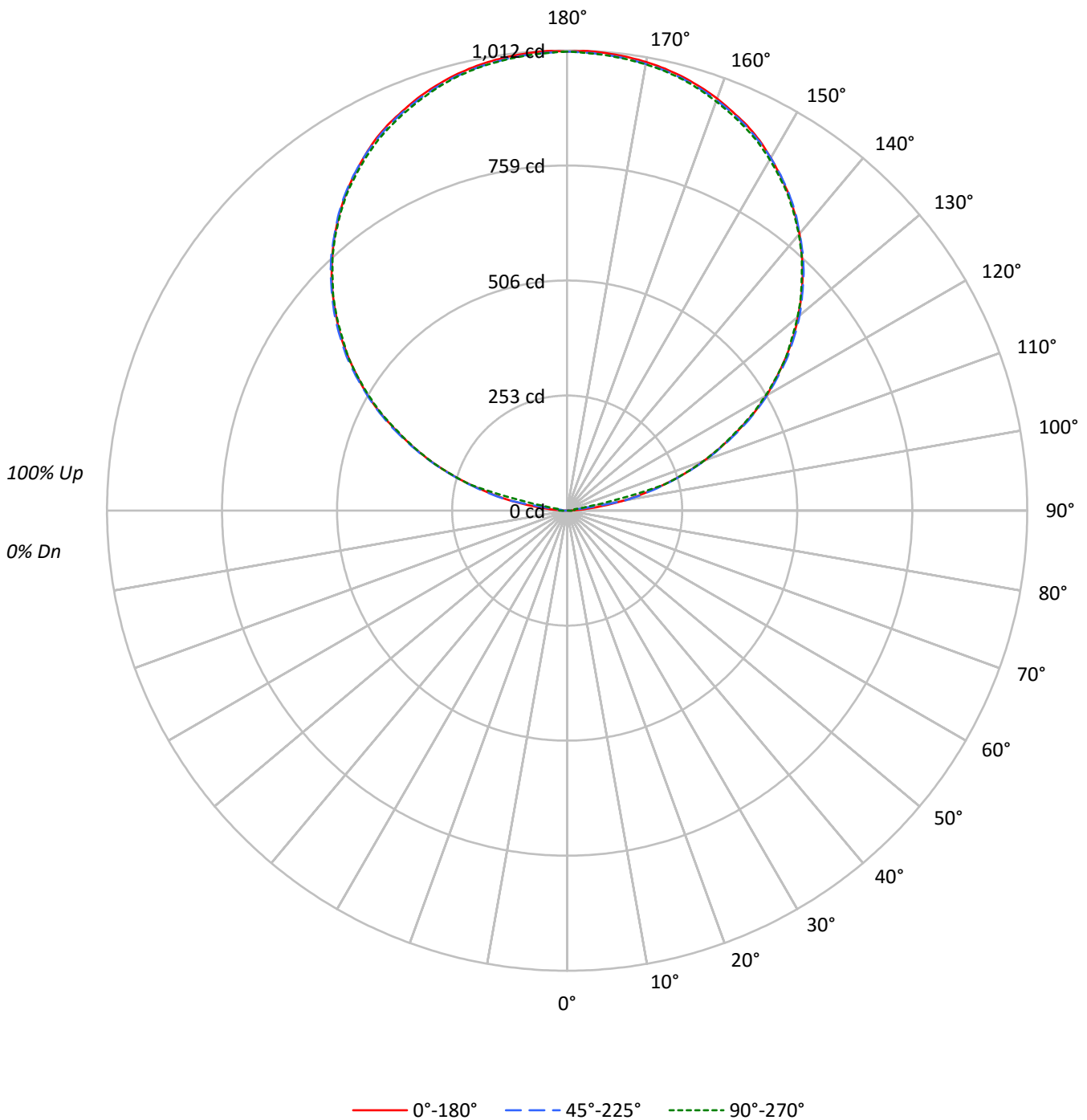
Lumens per Lamp: N/A
Luminaire Lumens: 3102.2 lumens
Efficiency: N/A
Efficacy: 221.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (A_{in}): 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	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	34.3	1.1
100°-110°	227.8	7.3
110°-120°	410.3	13.2
120°-130°	526.6	17.0
130°-140°	566.4	18.3
140°-150°	531.5	17.1
150°-160°	430.0	13.9
160°-170°	278.1	9.0
170°-180°	95.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.0
90°-120°	672.3	21.7
90°-150°	2296.8	74.0
90°-180°	3101.0	100.0
0°-180°	3102.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	7	12	16	18	2
95°	43	40	12	16	16	52
105°	220	223	223	223	222	233
115°	413	417	418	414	410	409
125°	587	593	593	590	587	525
135°	733	737	736	734	730	565
145°	849	851	851	852	847	531
155°	935	931	932	935	929	431
165°	987	982	983	988	982	279
175°	1009	1005	1006	1012	1005	96
180°	1009	1009	1009	1009	1009	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.7	6.7	12.0	15.7	18.0
92.5°	14.2	7.5	12.0	15.7	16.5
95°	42.7	40.4	12.0	15.7	15.7
97.5°	80.1	84.6	13.5	15.0	15.7
100°	125.0	127.2	130.2	18.7	15.7
102.5°	170.6	173.6	175.1	176.6	113.7
105°	220.0	223.0	223.0	223.0	222.2
107.5°	270.9	270.9	272.4	273.1	270.1
110°	320.3	320.3	321.8	319.5	320.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	366.7	368.9	369.6	366.7	365.2
115°	413.0	416.8	417.5	414.5	410.1
117.5°	461.7	461.7	464.7	460.2	458.7
120°	506.6	505.8	508.1	506.6	502.8
122.5°	546.2	550.0	550.7	549.2	544.7
125°	587.4	592.6	592.6	589.6	587.4
127.5°	627.1	630.8	630.0	628.5	622.6
130°	663.0	666.7	667.5	665.2	661.5
132.5°	698.9	703.4	701.1	701.1	697.4
135°	732.6	737.0	735.6	734.1	729.6
137.5°	764.0	768.5	767.0	767.0	763.2
140°	794.7	796.2	795.4	796.9	792.4
142.5°	822.4	823.1	824.6	824.6	820.1
145°	849.3	850.8	850.8	851.5	847.0
147.5°	873.2	873.2	874.0	874.7	869.5
150°	895.7	894.2	895.7	897.2	891.2
152.5°	917.4	913.6	915.1	916.6	911.4
155°	935.3	930.9	932.3	934.6	928.6
157.5°	949.6	947.3	947.3	949.6	943.6
160°	964.5	960.0	960.8	963.8	957.8
162.5°	976.5	972.0	972.8	977.2	970.5
165°	987.0	982.5	983.2	987.7	981.7
167.5°	995.2	990.7	991.5	996.7	990.0
170°	1001.9	996.7	997.4	1003.4	996.7
172.5°	1006.4	1001.2	1002.7	1007.9	1001.2
175°	1009.4	1004.9	1005.7	1011.7	1004.9
177.5°	1011.7	1007.2	1007.9	1013.2	1007.2
180°	1009.4	1009.4	1009.4	1009.4	1009.4

(END OF REPORT)