

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: P242266

Luminaire Tested: **S122DR-S675D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S675D840-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

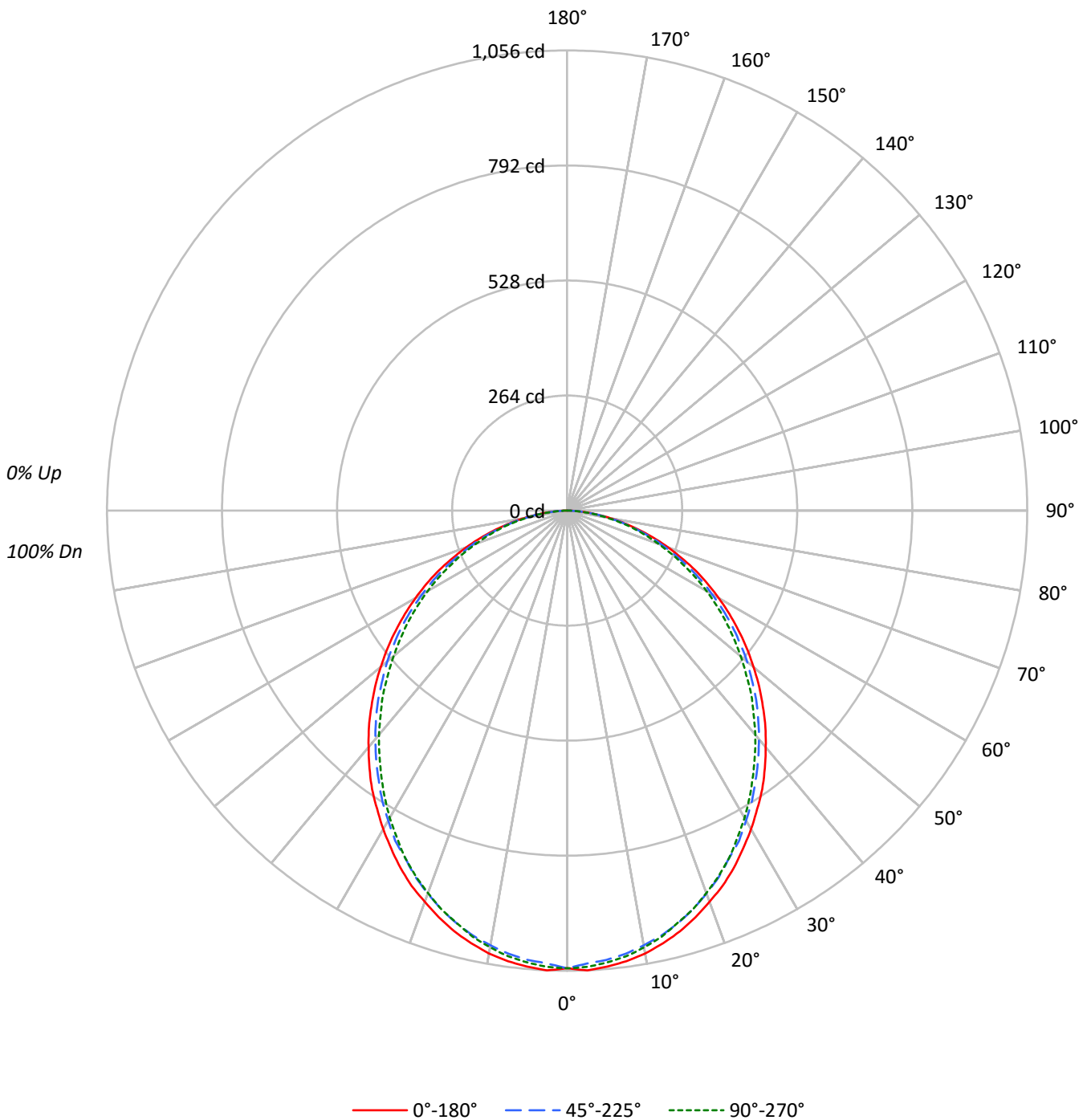
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20006	20006	20006
5°	20082	19792	19908
10°	19962	19591	19688
15°	19716	19337	19317
20°	19364	18955	18934
25°	19016	18486	18486
30°	18568	18057	17903
35°	18151	17542	17284
40°	17627	17025	16699
45°	17111	16513	16103
50°	16550	15981	15412
55°	15963	15359	14791
60°	15311	14617	14080
65°	14612	13882	13246
70°	13722	12993	12375
75°	12489	11966	11665
80°	11079	10750	10190
85°	9048	8611	7715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.7
10°-20°	278.1	10.4
20°-30°	408.7	15.3
30°-40°	474.7	17.8
40°-50°	474.1	17.7
50°-60°	413.4	15.5
60°-70°	305.6	11.4
70°-80°	172.9	6.5
80°-90°	45.6	1.7
90°-100°	0.0	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°	785.7	29.4
0°-40°	1260.4	47.2
0°-60°	2147.9	80.4
0°-90°	2672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1050	1046	1035	1043	1041	100
15°	1000	994	981	985	980	282
25°	905	897	880	882	880	416
35°	781	770	754	748	743	487
45°	635	628	613	602	598	490
55°	481	475	462	450	445	430
65°	324	318	308	299	294	321
75°	170	168	163	156	158	181
85°	41	40	39	36	35	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.3	1050.3	1050.3	1050.3	1050.3
2.5°	1056.3	1051.3	1040.2	1050.3	1048.2
5°	1050.3	1046.2	1035.1	1043.2	1041.2
7.5°	1043.2	1037.1	1026.0	1034.1	1032.1
10°	1032.1	1025.0	1012.9	1021.0	1017.9
12.5°	1016.9	1010.9	998.8	1003.8	1001.8
15°	999.8	993.7	980.6	984.6	979.6
17.5°	978.6	972.5	959.4	964.4	959.4
20°	955.3	949.3	935.1	938.2	934.1
22.5°	932.1	923.0	909.9	909.9	907.9
25°	904.8	896.8	879.6	881.6	879.6
27.5°	874.5	867.5	854.3	851.3	846.3
30°	844.2	836.2	821.0	818.0	814.0
32.5°	811.9	805.9	789.7	783.7	779.6
35°	780.6	770.5	754.4	748.3	743.3
37.5°	745.3	736.2	720.0	713.0	707.9
40°	708.9	700.8	684.7	675.6	671.6
42.5°	673.6	665.5	649.3	639.2	633.2
45°	635.2	628.1	613.0	601.9	597.8
47.5°	597.8	590.8	574.6	563.5	557.4
50°	558.5	553.4	539.3	525.1	520.1
52.5°	520.1	513.0	499.9	488.8	481.7
55°	480.7	474.6	462.5	450.4	445.4
57.5°	441.3	436.3	423.1	411.0	407.0
60°	401.9	397.9	383.7	372.6	369.6
62.5°	363.6	356.5	346.4	336.3	332.2
65°	324.2	318.1	308.0	298.9	293.9
67.5°	283.8	278.7	269.6	262.6	258.5
70°	246.4	242.4	233.3	226.2	222.2
72.5°	208.0	204.0	198.9	191.9	188.8
75°	169.7	167.6	162.6	156.5	158.5
77.5°	135.3	131.3	129.3	126.2	123.2
80°	101.0	100.0	98.0	94.9	92.9
82.5°	68.7	68.7	67.7	63.6	63.6
85°	41.4	40.4	39.4	36.4	35.3
87.5°	18.2	16.2	14.1	11.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)