

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: P242727

Luminaire Tested: **S124RDR-S575D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D940-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

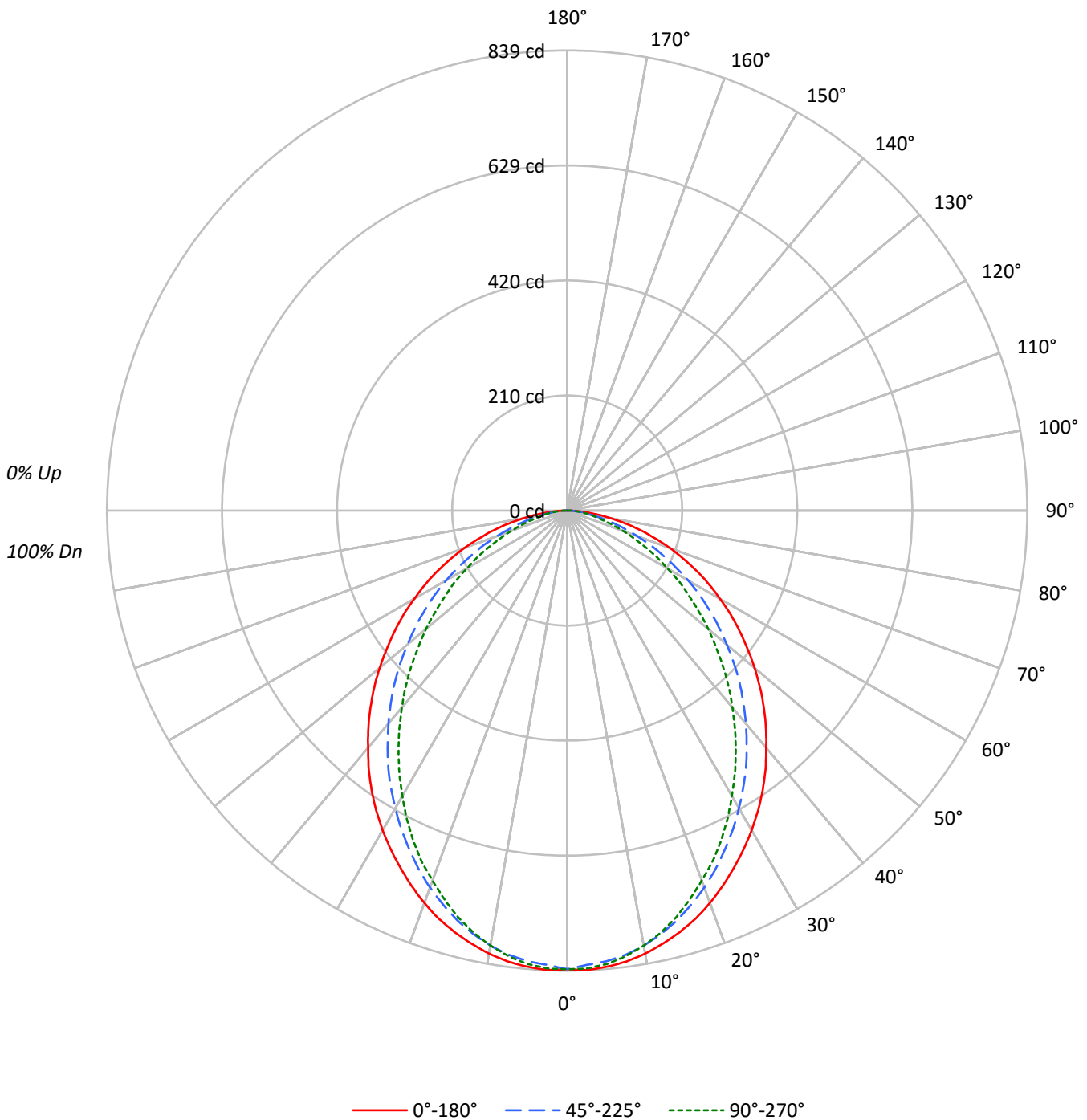
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47					47			
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7433	7433	7433
5°	7450	7359	7404
10°	7403	7270	7270
15°	7318	7117	7065
20°	7201	6917	6789
25°	7052	6681	6512
30°	6907	6433	6165
35°	6746	6177	5815
40°	6553	5884	5439
45°	6375	5594	5055
50°	6172	5259	4648
55°	5954	4911	4208
60°	5714	4530	3756
65°	5494	4053	3313
70°	5174	3527	2812
75°	4770	2926	2287
80°	4162	2227	2099
85°	3529	2019	1897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	4.1
10°-20°	219.2	11.3
20°-30°	316.5	16.4
30°-40°	358.7	18.6
40°-50°	346.4	17.9
50°-60°	288.0	14.9
60°-70°	198.7	10.3
70°-80°	100.4	5.2
80°-90°	25.5	1.3
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°	614.4	31.8
0°-40°	973.1	50.4
0°-60°	1607.4	83.2
0°-90°	1932.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	835	832	825	831	830	79
15°	795	790	773	772	768	224
25°	719	708	681	670	664	331
35°	622	601	569	547	536	389
45°	507	483	445	414	402	391
55°	384	359	317	284	272	344
65°	261	234	193	165	158	258
75°	139	115	85	70	67	147
85°	35	22	20	19	19	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.2	836.2	836.2	836.2	836.2
2.5°	838.8	836.2	829.2	836.2	835.6
5°	834.9	832.4	824.7	831.1	829.8
7.5°	829.2	826.6	817.0	821.5	819.5
10°	820.2	817.0	805.5	808.0	805.5
12.5°	808.7	804.8	790.7	792.0	788.2
15°	795.2	789.5	773.4	772.2	767.7
17.5°	779.9	771.5	753.0	749.8	743.4
20°	761.3	753.0	731.2	726.1	717.7
22.5°	740.8	731.2	707.5	699.2	692.8
25°	719.0	707.5	681.2	670.4	664.0
27.5°	696.6	682.5	655.0	642.2	633.2
30°	672.9	656.9	626.8	610.8	600.6
32.5°	648.0	629.4	598.0	578.8	569.2
35°	621.7	601.2	569.2	547.4	535.9
37.5°	594.2	573.0	537.8	514.1	502.6
40°	564.7	543.6	507.1	480.2	468.7
42.5°	536.5	514.1	475.7	448.2	436.0
45°	507.1	483.4	445.0	413.6	402.1
47.5°	477.0	452.7	413.0	380.3	367.5
50°	446.3	421.3	380.3	348.3	336.1
52.5°	414.9	390.6	348.3	315.7	302.8
55°	384.2	358.6	316.9	283.6	271.5
57.5°	354.1	327.2	286.2	252.3	243.3
60°	321.4	295.8	254.8	221.5	211.3
62.5°	292.0	265.1	222.8	192.7	185.0
65°	261.2	233.7	192.7	165.2	157.5
67.5°	229.2	203.0	164.5	140.2	131.3
70°	199.1	172.2	135.7	114.6	108.2
72.5°	167.1	143.4	109.5	92.2	86.4
75°	138.9	115.2	85.2	70.4	66.6
77.5°	109.5	89.0	63.4	53.1	51.9
80°	81.3	62.7	43.5	41.6	41.0
82.5°	57.0	40.3	31.4	30.1	29.5
85°	34.6	21.8	19.8	18.6	18.6
87.5°	14.7	9.6	9.0	8.3	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)