

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: P243583

Luminaire Tested: **S124RDR-H795D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H795D935-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.6 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

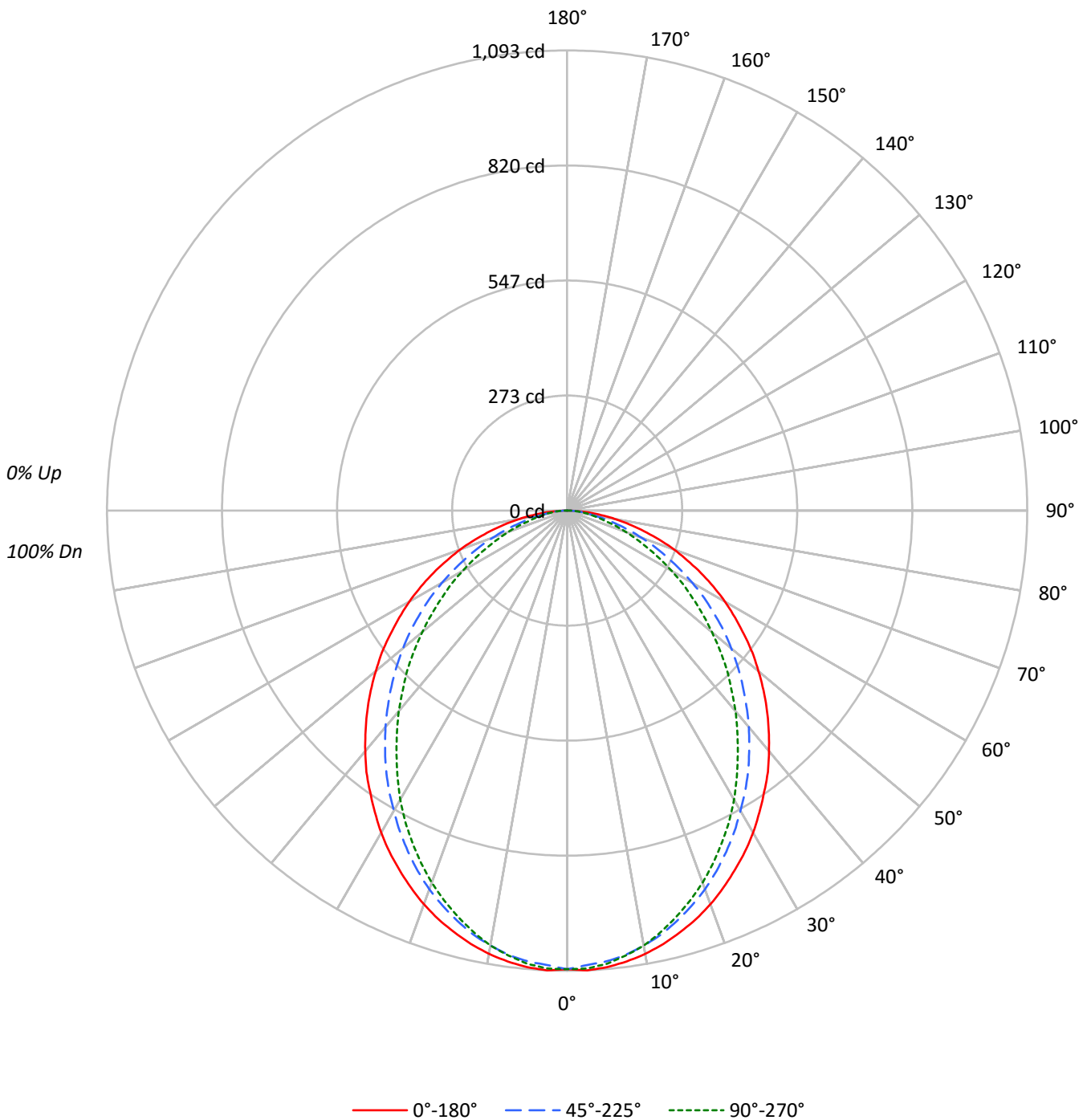
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9683	9683	9683
5°	9713	9590	9640
10°	9651	9469	9469
15°	9543	9284	9195
20°	9414	9056	8897
25°	9241	8767	8531
30°	9068	8449	8135
35°	8855	8139	7668
40°	8656	7790	7220
45°	8439	7418	6751
50°	8205	7037	6204
55°	7949	6603	5657
60°	7703	6103	5088
65°	7372	5513	4446
70°	7020	4868	3865
75°	6488	4059	3146
80°	5928	3169	2882
85°	5242	3029	2866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	4.0
10°-20°	286.1	11.1
20°-30°	414.9	16.2
30°-40°	472.8	18.4
40°-50°	460.1	17.9
50°-60°	386.5	15.0
60°-70°	269.2	10.5
70°-80°	139.0	5.4
80°-90°	37.6	1.5
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°	803.4	31.3
0°-40°	1276.2	49.7
0°-60°	2122.8	82.6
0°-90°	2568.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1088	1085	1075	1083	1080	103
15°	1037	1029	1009	1007	999	292
25°	942	924	894	881	870	434
35°	816	791	750	722	707	511
45°	671	639	590	552	537	518
55°	513	480	426	383	365	459
65°	350	317	262	224	211	347
75°	189	160	118	99	92	201
85°	51	33	30	28	28	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.3	1089.3	1089.3	1089.3	1089.3
2.5°	1093.3	1090.1	1080.4	1089.3	1088.5
5°	1088.5	1085.3	1074.8	1082.9	1080.4
7.5°	1080.4	1076.4	1064.4	1070.0	1066.0
10°	1069.2	1065.2	1049.1	1053.1	1049.1
12.5°	1054.7	1049.1	1031.4	1032.2	1025.8
15°	1037.0	1029.0	1008.9	1007.3	999.2
17.5°	1017.7	1007.3	984.0	980.0	971.1
20°	995.2	982.4	957.4	948.6	940.6
22.5°	969.5	954.2	926.9	916.4	906.0
25°	942.2	924.5	893.9	881.1	869.8
27.5°	914.0	893.1	860.2	844.1	832.8
30°	883.5	859.4	823.2	804.7	792.6
32.5°	849.7	825.6	787.8	765.3	750.0
35°	816.0	791.0	750.0	721.9	706.6
37.5°	783.0	754.9	710.6	681.7	664.0
40°	746.0	716.3	671.3	638.3	622.2
42.5°	709.0	678.5	630.3	595.7	578.0
45°	671.3	639.1	590.1	552.3	537.0
47.5°	632.7	600.5	549.9	510.5	492.8
50°	593.3	561.1	508.9	465.5	448.6
52.5°	554.7	520.9	468.7	424.5	406.8
55°	512.9	479.9	426.1	382.7	365.0
57.5°	472.7	438.1	385.9	341.7	327.2
60°	433.3	398.7	343.3	300.7	286.2
62.5°	391.5	356.9	302.3	261.3	248.4
65°	350.5	316.7	262.1	224.3	211.4
67.5°	308.7	278.1	225.1	188.9	178.5
70°	270.1	235.5	187.3	156.0	148.7
72.5°	229.1	198.6	151.9	126.2	120.6
75°	188.9	160.0	118.2	98.9	91.6
77.5°	151.9	123.8	89.2	73.2	73.2
80°	115.8	90.8	61.9	57.9	56.3
82.5°	82.0	58.7	45.8	42.6	41.8
85°	51.4	33.0	29.7	28.1	28.1
87.5°	24.9	15.3	15.3	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)