

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: P334258

Luminaire Tested: **S124RDS-S1020D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334258
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: S124RDS-S1020D935-4F0-1E-UDD-F
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1020 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.4 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

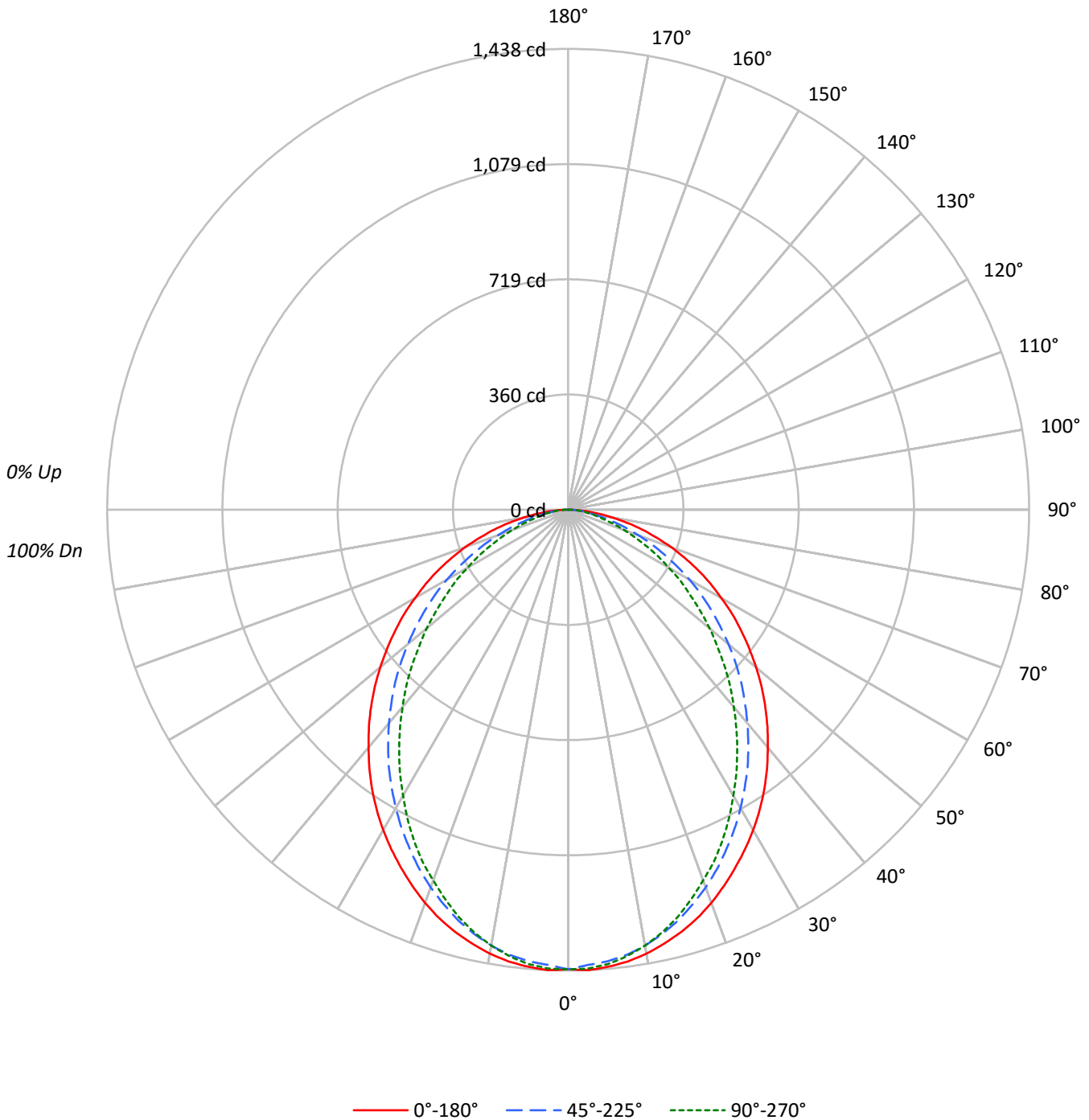
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11577	11577	11577
5°	11603	11460	11532
10°	11530	11323	11323
15°	11397	11086	11003
20°	11216	10772	10574
25°	10983	10407	10142
30°	10757	10020	9601
35°	10507	9620	9057
40°	10205	9164	8470
45°	9928	8712	7872
50°	9612	8191	7239
55°	9272	7650	6552
60°	8900	7056	5850
65°	8558	6313	5160
70°	8061	5495	4381
75°	7433	4554	3562
80°	6481	3473	3268
85°	5493	3149	2946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	4.1
10°-20°	376.0	11.3
20°-30°	542.8	16.4
30°-40°	615.2	18.6
40°-50°	594.0	17.9
50°-60°	493.8	14.9
60°-70°	340.9	10.3
70°-80°	172.2	5.2
80°-90°	43.7	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°	1053.6	31.8
0°-40°	1668.8	50.4
0°-60°	2756.5	83.2
0°-90°	3313.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1432	1427	1414	1425	1423	136
15°	1364	1354	1326	1324	1316	384
25°	1233	1213	1168	1150	1139	568
35°	1066	1031	976	939	919	666
45°	870	829	763	709	690	671
55°	659	615	544	486	466	589
65°	448	401	330	283	270	442
75°	238	198	146	121	114	251
85°	59	37	34	32	32	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1438.4	1434.0	1421.9	1434.0	1432.9
5°	1431.8	1427.4	1414.2	1425.2	1423.0
7.5°	1421.9	1417.5	1401.0	1408.7	1405.4
10°	1406.5	1401.0	1381.3	1385.7	1381.3
12.5°	1386.8	1380.2	1356.0	1358.2	1351.6
15°	1363.7	1353.8	1326.4	1324.2	1316.5
17.5°	1337.3	1323.1	1291.2	1285.7	1274.8
20°	1305.5	1291.2	1253.9	1245.1	1230.8
22.5°	1270.4	1253.9	1213.3	1199.0	1188.0
25°	1233.0	1213.3	1168.3	1149.6	1138.6
27.5°	1194.6	1170.5	1123.2	1101.3	1085.9
30°	1154.0	1126.5	1074.9	1047.5	1029.9
32.5°	1111.2	1079.3	1025.5	992.6	976.1
35°	1066.1	1031.0	976.1	938.8	919.0
37.5°	1018.9	982.7	922.3	881.7	861.9
40°	968.4	932.2	869.6	823.5	803.7
42.5°	920.1	881.7	815.8	768.6	747.7
45°	869.6	829.0	763.1	709.3	689.5
47.5°	818.0	776.3	708.2	652.2	630.2
50°	765.3	722.5	652.2	597.3	576.4
52.5°	711.5	669.8	597.3	541.3	519.3
55°	658.8	614.9	543.5	486.4	465.5
57.5°	607.2	561.1	490.8	432.6	417.2
60°	551.2	507.3	437.0	379.9	362.3
62.5°	500.7	454.6	382.1	330.5	317.3
65°	448.0	400.8	330.5	283.3	270.1
67.5°	393.1	348.1	282.2	240.5	225.1
70°	341.5	295.4	232.8	196.5	185.6
72.5°	286.6	245.9	187.8	158.1	148.2
75°	238.3	197.6	146.0	120.8	114.2
77.5°	187.8	152.6	108.7	91.1	88.9
80°	139.4	107.6	74.7	71.4	70.3
82.5°	97.7	69.2	53.8	51.6	50.5
85°	59.3	37.3	34.0	31.8	31.8
87.5°	25.3	16.5	15.4	14.3	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)