

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011015

Luminaire Tested: S123RDIP-B775D805UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011015
REPORT IS A COMBINATION OF REPORTS P993691 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D805UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

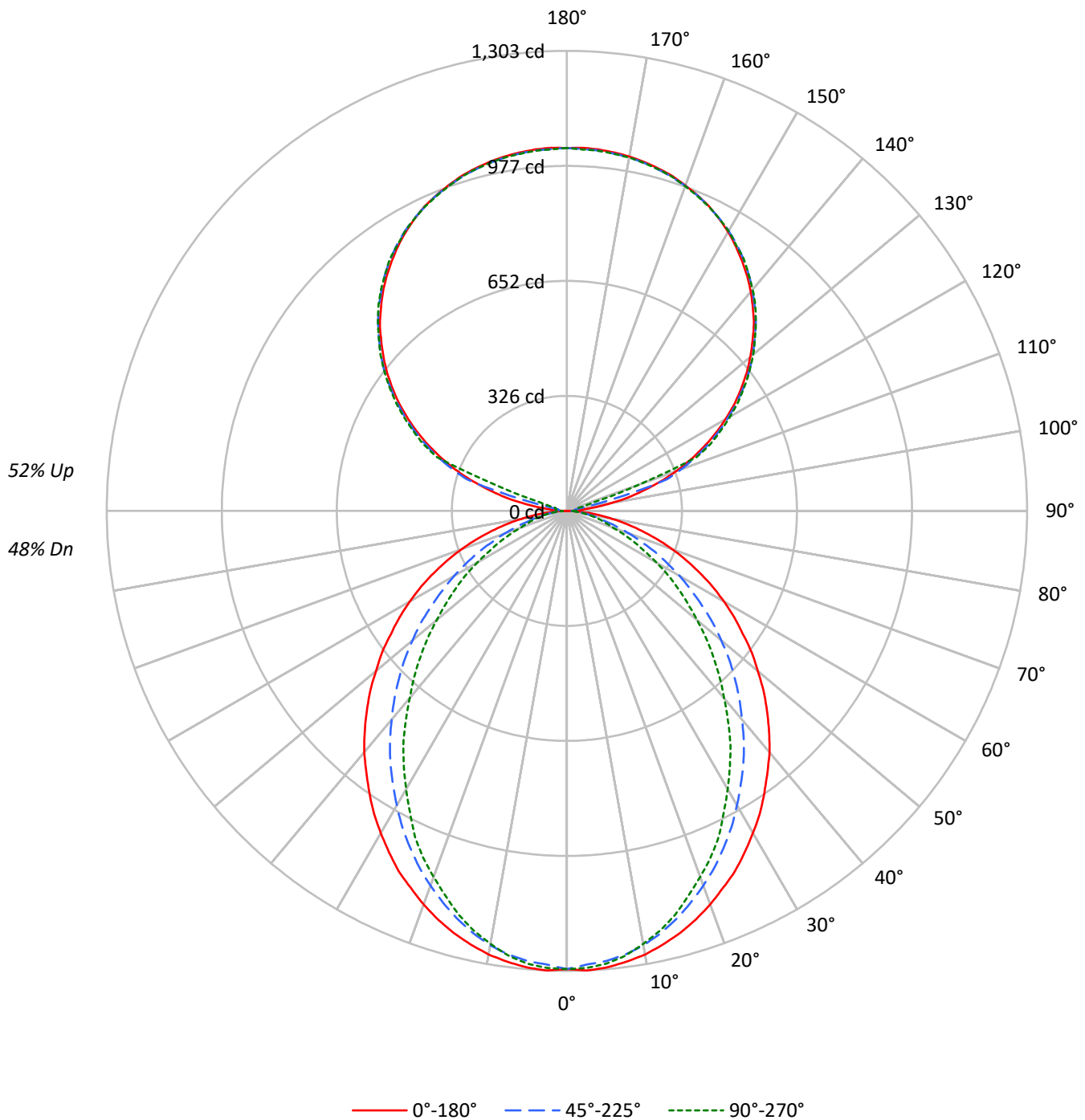
Lumens per Lamp: N/A
Luminaire Lumens: 6067.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	39	36	34
4	75	64	56	51	69	60	53	47	51	45	41	42	39	35	35	32	30
5	69	57	49	44	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	52	44	38	58	48	41	36	41	36	31	35	30	27	29	25	23
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17
10	47	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13969	13969	13969
5°	13992	13475	13439
10°	13882	12969	12713
15°	13702	12343	11918
20°	13465	11661	11030
25°	13221	10953	10188
30°	12909	10201	9194
35°	12588	9461	8287
40°	12284	8657	7286
45°	11896	7873	6386
50°	11467	7034	5455
55°	11024	6136	4601
60°	10600	5216	3735
65°	10051	4272	2915
70°	9362	3230	2083
75°	8369	2188	1650
80°	7145	1520	1157
85°	5360	821	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11896 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	2.0
10°-20°	339.4	5.6
20°-30°	488.7	8.1
30°-40°	550.3	9.1
40°-50°	526.4	8.7
50°-60°	430.9	7.1
60°-70°	290.5	4.8
70°-80°	145.7	2.4
80°-90°	40.2	0.7
90°-100°	36.2	0.6
100°-110°	175.2	2.9
110°-120°	429.3	7.1
120°-130°	545.1	9.0
130°-140°	582.3	9.6
140°-150°	544.5	9.0
150°-160°	439.2	7.2
160°-170°	283.4	4.7
170°-180°	97.7	1.6
0°-30°	950.1	15.7
0°-40°	1500.4	24.7
0°-60°	2457.7	40.5
0°-90°	2934.1	48.4
90°-120°	640.8	10.6
90°-150°	2312.6	38.1
90°-180°	3133.0	51.6
0°-180°	6067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1298	1293	1280	1289	1287	123
15°	1238	1226	1197	1192	1184	349
25°	1126	1100	1052	1029	1018	518
35°	975	937	872	826	807	610
45°	801	754	673	613	587	618
55°	608	557	467	406	385	546
65°	416	358	276	224	213	411
75°	220	170	112	101	99	234
85°	56	33	30	27	27	61
90°	1	8	18	21	23	6
95°	47	15	24	29	29	56
105°	228	236	167	32	34	241
115°	427	431	438	446	449	422
125°	602	608	611	612	614	538
135°	749	754	757	759	757	577
145°	864	870	871	873	873	541
155°	952	951	951	955	951	439
165°	1004	1002	1001	1007	1002	284
175°	1028	1024	1025	1030	1024	98
180°	1028	1028	1028	1028	1028	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1303.1	1298.9	1286.2	1297.8	1295.7
5°	1297.8	1292.6	1279.9	1289.4	1287.3
7.5°	1288.3	1283.1	1267.3	1273.6	1270.5
10°	1275.7	1268.3	1249.4	1250.5	1245.2
12.5°	1257.8	1249.4	1225.2	1224.1	1217.8
15°	1237.8	1226.2	1196.8	1191.5	1184.1
17.5°	1213.6	1201.0	1164.1	1153.6	1143.1
20°	1186.2	1169.4	1129.4	1115.7	1103.1
22.5°	1155.7	1135.7	1092.6	1074.7	1063.1
25°	1126.2	1099.9	1051.5	1029.4	1017.8
27.5°	1090.5	1062.0	1009.4	979.9	962.0
30°	1053.6	1022.0	963.1	927.3	910.5
32.5°	1016.8	979.9	916.8	876.8	858.9
35°	974.7	936.8	871.5	826.3	807.3
37.5°	932.6	891.5	823.1	772.6	749.4
40°	892.6	846.3	771.5	716.8	692.6
42.5°	847.3	801.0	723.1	662.1	641.0
45°	801.0	753.6	672.6	612.6	587.3
47.5°	755.7	703.1	623.1	557.9	535.8
50°	705.2	655.8	570.5	505.2	481.0
52.5°	660.0	605.2	521.0	452.6	431.6
55°	608.4	556.8	467.3	406.3	385.2
57.5°	562.1	506.3	415.8	357.9	340.0
60°	513.7	455.8	368.4	311.6	293.7
62.5°	465.2	407.3	320.0	267.4	248.4
65°	415.8	357.9	275.8	224.2	212.6
67.5°	366.3	307.4	227.4	188.4	175.8
70°	317.9	261.0	187.4	150.5	138.9
72.5°	269.5	213.7	148.4	120.0	116.8
75°	220.0	169.5	111.6	101.0	98.9
77.5°	174.7	128.4	87.4	81.0	78.9
80°	131.6	88.4	66.3	63.2	61.0
82.5°	90.5	54.7	47.4	44.2	44.2
85°	55.8	32.6	29.5	27.4	27.4
87.5°	25.3	13.7	13.7	12.6	11.6
90°	0.8	8.4	18.3	21.4	22.9
92.5°	17.6	13.0	19.9	25.2	26.0
95°	46.6	15.3	23.7	29.0	29.0
97.5°	84.7	63.4	24.4	30.5	31.3
100°	129.0	144.3	25.2	31.3	32.1
102.5°	179.4	189.3	56.5	31.3	32.8
105°	227.5	235.9	167.2	32.1	33.6
107.5°	278.7	285.5	297.0	179.4	79.4
110°	329.8	335.9	344.3	319.1	210.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.7	384.0	392.4	399.3	397.8
115°	426.8	431.4	438.2	445.9	448.9
117.5°	474.1	479.5	483.3	489.4	490.2
120°	517.7	524.5	526.8	532.9	532.9
122.5°	561.9	567.3	570.3	574.2	574.9
125°	601.6	607.7	610.8	612.3	613.9
127.5°	641.3	647.4	651.3	653.6	652.0
130°	678.0	684.1	687.2	690.2	688.7
132.5°	713.1	719.2	721.5	724.6	722.3
135°	749.0	753.6	756.6	758.9	756.6
137.5°	779.5	785.6	787.2	791.0	789.5
140°	810.1	814.7	816.9	820.0	818.5
142.5°	838.3	842.9	845.2	847.5	845.2
145°	864.3	869.6	871.2	872.7	872.7
147.5°	889.5	893.3	894.8	896.4	892.5
150°	912.4	914.7	916.2	917.7	915.4
152.5°	933.0	933.8	934.5	937.6	933.8
155°	952.1	950.6	951.3	955.1	950.6
157.5°	967.4	967.4	966.6	971.2	965.1
160°	981.1	980.3	979.6	984.2	978.8
162.5°	994.1	991.8	991.0	996.4	991.8
165°	1004.0	1001.7	1001.0	1007.1	1001.7
167.5°	1012.4	1009.3	1009.3	1015.5	1009.3
170°	1019.3	1016.2	1016.2	1022.3	1016.2
172.5°	1023.9	1020.0	1020.8	1026.9	1020.0
175°	1027.7	1023.9	1024.6	1030.0	1023.9
177.5°	1029.2	1025.4	1026.1	1032.3	1024.6
180°	1027.7	1027.7	1027.7	1027.7	1027.7

(END OF REPORT)