

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: P1011983

Luminaire Tested: S123DIP-B775D1195UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011983
REPORT IS A COMBINATION OF REPORTS P990337 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB50-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

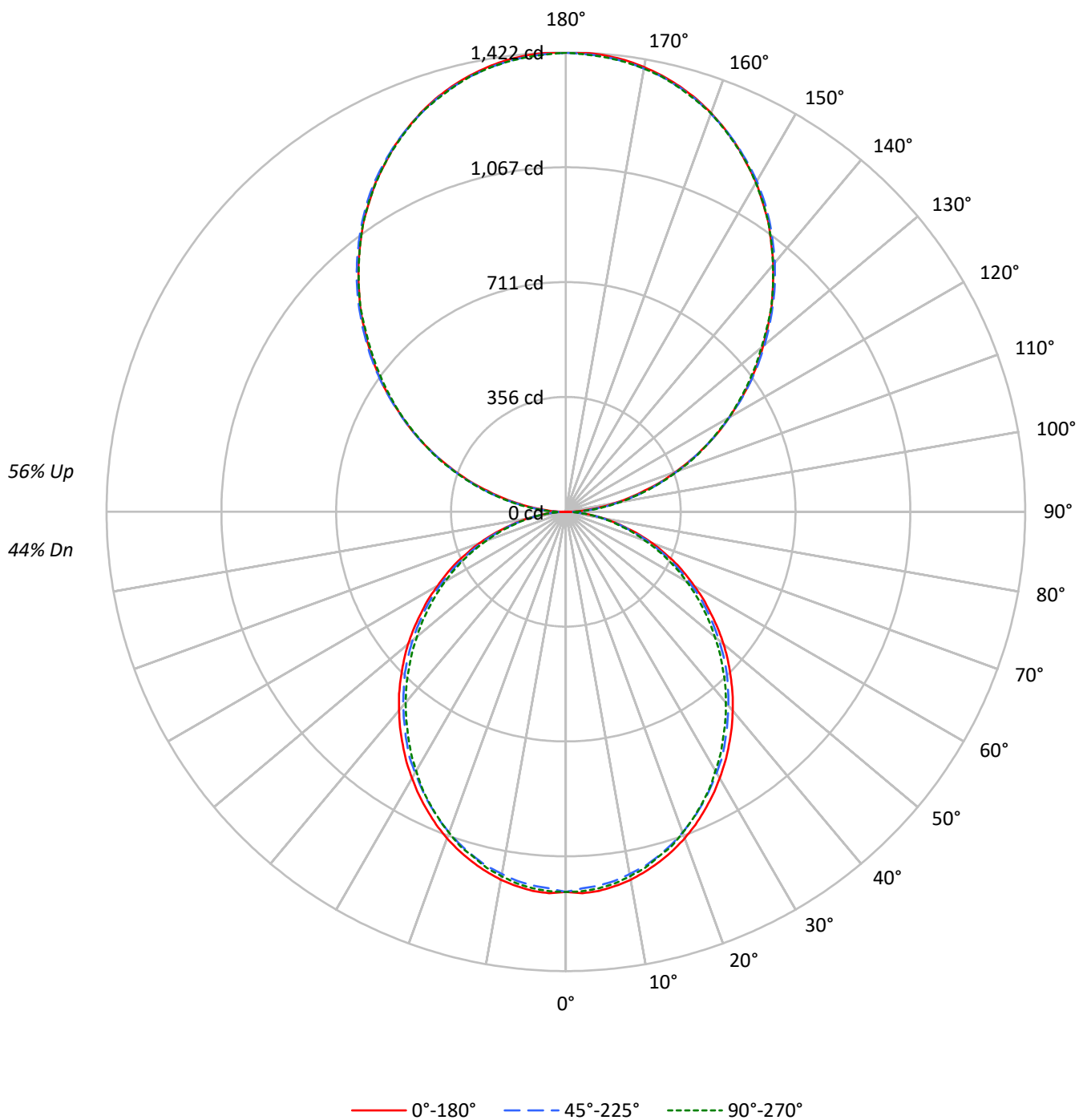
Lumens per Lamp: N/A
Luminaire Lumens: 7004.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	50	50	50
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	44	43	42
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	37	36
3	80	71	63	57	73	65	58	53	54	49	45	44	41	38	35	32	30
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26
5	67	56	47	42	61	51	44	39	43	37	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12668	12668	12668
5°	12699	12231	12212
10°	12587	11818	11695
15°	12412	11387	11133
20°	12211	10909	10574
25°	11951	10404	9978
30°	11668	9882	9350
35°	11370	9349	8726
40°	11058	8790	8112
45°	10715	8244	7471
50°	10367	7636	6828
55°	9920	7003	6176
60°	9459	6305	5482
65°	9026	5548	4759
70°	8405	4710	3915
75°	7505	3730	3040
80°	6482	2622	2149
85°	5052	1409	1077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.6
10°-20°	313.3	4.5
20°-30°	462.7	6.6
30°-40°	540.4	7.7
40°-50°	543.3	7.8
50°-60°	477.2	6.8
60°-70°	355.4	5.1
70°-80°	202.3	2.9
80°-90°	60.5	0.9
90°-100°	91.5	1.3
100°-110°	276.9	4.0
110°-120°	471.4	6.7
120°-130°	620.2	8.9
130°-140°	697.1	10.0
140°-150°	685.3	9.8
150°-160°	577.0	8.2
160°-170°	384.1	5.5
170°-180°	134.5	1.9
0°-30°	886.9	12.7
0°-40°	1427.3	20.4
0°-60°	2447.8	34.9
0°-90°	3066.0	43.8
90°-120°	839.8	12.0
90°-150°	2842.4	40.6
90°-180°	3938.0	56.2
0°-180°	7004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1178	1173	1162	1172	1170	112
15°	1121	1117	1104	1112	1106	316
25°	1018	1012	999	1000	997	469
35°	880	874	861	855	850	551
45°	722	718	704	692	687	557
55°	548	546	533	522	517	490
65°	373	368	358	350	347	368
75°	197	193	190	185	182	211
85°	53	51	51	49	49	56
90°	1	12	27	31	34	8
95°	66	74	83	87	87	73
105°	251	253	264	264	266	269
115°	474	478	476	477	476	470
125°	694	698	696	691	687	619
135°	901	908	907	902	900	694
145°	1093	1095	1099	1098	1093	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1182.0	1177.9	1166.8	1176.9	1175.9
5°	1177.9	1172.9	1161.7	1171.9	1169.8
7.5°	1168.8	1163.8	1152.6	1161.7	1160.7
10°	1156.7	1151.6	1138.5	1147.6	1145.5
12.5°	1140.5	1136.4	1124.3	1130.4	1129.4
15°	1121.3	1117.2	1104.1	1112.2	1106.1
17.5°	1100.0	1095.0	1081.8	1087.9	1085.8
20°	1075.7	1069.7	1056.5	1060.5	1057.5
22.5°	1048.4	1042.3	1029.2	1032.2	1028.2
25°	1018.0	1012.0	998.8	999.8	996.8
27.5°	986.7	980.6	966.4	967.4	964.4
30°	952.3	947.2	933.0	933.0	926.0
32.5°	917.9	910.8	900.7	893.6	890.5
35°	880.4	874.3	861.2	855.1	850.1
37.5°	843.0	834.9	821.7	814.6	811.6
40°	803.5	797.4	783.3	775.2	771.1
42.5°	764.0	757.0	742.8	734.7	730.6
45°	721.5	717.5	704.3	692.2	687.1
47.5°	680.0	674.0	661.8	649.7	645.6
50°	637.5	632.5	619.3	608.2	602.1
52.5°	593.0	590.0	575.8	566.7	560.6
55°	547.5	546.5	533.3	522.2	517.1
57.5°	505.0	500.9	490.8	480.7	474.6
60°	458.4	457.4	445.3	436.2	431.1
62.5°	416.9	413.9	401.8	392.6	389.6
65°	373.4	368.4	358.2	350.1	347.1
67.5°	326.9	322.8	314.7	307.6	303.6
70°	285.4	279.3	273.2	266.1	261.1
72.5°	241.9	237.8	230.7	224.7	222.6
75°	197.3	193.3	190.3	185.2	182.2
77.5°	157.9	155.8	151.8	147.7	147.7
80°	119.4	116.4	114.4	113.3	113.3
82.5°	82.0	82.0	82.0	79.9	78.9
85°	52.6	50.6	50.6	48.6	48.6
87.5°	26.3	23.3	22.3	21.3	21.3
90°	1.1	12.3	26.8	31.3	33.5
92.5°	33.5	40.2	46.9	50.2	48.0
95°	65.9	73.7	82.6	87.1	87.1
97.5°	108.3	113.9	120.6	126.2	125.0
100°	151.8	158.5	164.1	167.5	169.7
102.5°	202.1	205.4	213.2	216.6	215.5
105°	251.2	253.4	263.5	263.5	265.7
107.5°	309.3	310.4	314.8	318.2	317.1
110°	362.8	365.1	367.3	371.8	369.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.7	419.8	419.8	425.4	425.4
115°	474.5	477.8	475.6	476.7	475.6
117.5°	531.4	532.5	530.3	530.3	527.0
120°	583.9	590.6	585.0	583.9	581.7
122.5°	638.6	643.1	640.8	637.5	634.1
125°	694.4	697.8	695.5	691.1	686.6
127.5°	745.8	752.5	750.3	743.6	739.1
130°	797.1	806.1	802.7	798.3	790.4
132.5°	848.5	857.4	855.2	849.6	844.0
135°	901.0	907.7	906.6	902.1	899.9
137.5°	949.0	954.6	957.9	952.3	949.0
140°	999.2	1004.8	1005.9	1004.8	997.0
142.5°	1045.0	1050.6	1052.8	1051.7	1046.1
145°	1093.0	1095.2	1098.6	1097.5	1093.0
147.5°	1134.3	1138.8	1142.1	1142.1	1135.4
150°	1177.9	1180.1	1182.3	1182.3	1175.6
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)