

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: P1012111

Luminaire Tested: S123DIP-B775D805UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012111
REPORT IS A COMBINATION OF REPORTS P990516 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB50-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

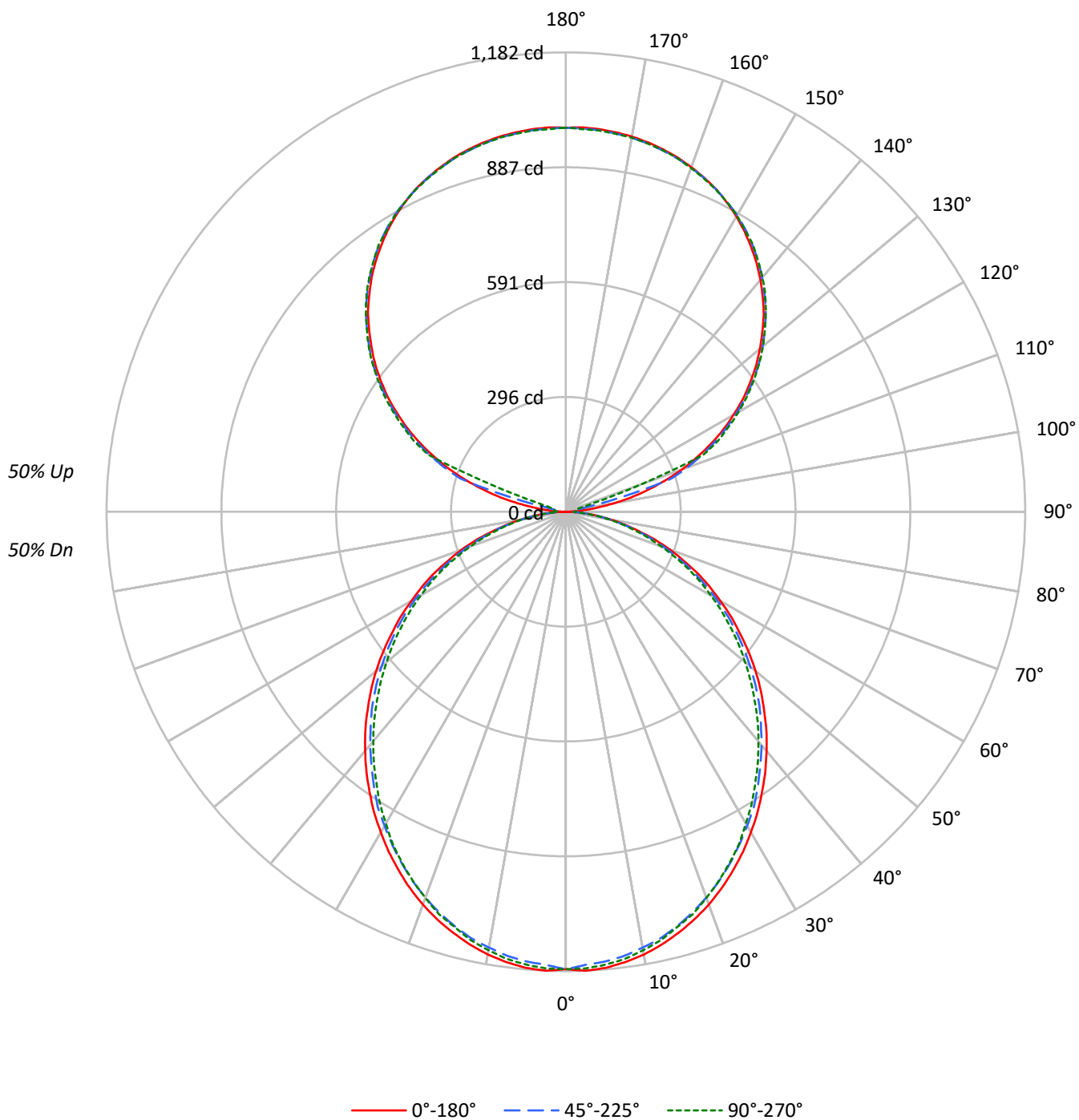
Lumens per Lamp: N/A
Luminaire Lumens: 6078.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	57	57	57
1	98	93	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48	48	48	42
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	40	40	35
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34	34	34	30
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	29	29	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	26	26	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	22	22	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	20	20	17
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	18	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	16	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	15	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	1.8
10°-20°	313.3	5.2
20°-30°	462.7	7.6
30°-40°	540.4	8.9
40°-50°	543.3	8.9
50°-60°	477.2	7.9
60°-70°	355.4	5.8
70°-80°	202.3	3.3
80°-90°	59.5	1.0
90°-100°	34.9	0.6
100°-110°	168.5	2.8
110°-120°	412.9	6.8
120°-130°	524.2	8.6
130°-140°	560.0	9.2
140°-150°	523.6	8.6
150°-160°	422.4	6.9
160°-170°	272.6	4.5
170°-180°	93.9	1.5
0°-30°	886.9	14.6
0°-40°	1427.3	23.5
0°-60°	2447.8	40.3
0°-90°	3065.0	50.4
90°-120°	616.3	10.1
90°-150°	2224.1	36.6
90°-180°	3013.0	49.6
0°-180°	6078.0	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	8	18	21	22	6
95°	45	15	23	28	28	54
105°	219	227	161	31	32	232
115°	410	415	422	429	432	405
125°	579	584	587	589	590	517
135°	720	725	728	730	728	555
145°	831	836	838	839	839	520
155°	916	914	915	919	914	422
165°	966	963	963	968	963	273
175°	988	985	985	990	985	94
180°	988	988	988	988	988	

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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°	0.7	8.1	17.6	20.6	22.0
92.5°	16.9	12.5	19.1	24.2	25.0
95°	44.8	14.7	22.8	27.9	27.9
97.5°	81.5	60.9	23.5	29.4	30.1
100°	124.1	138.8	24.2	30.1	30.8
102.5°	172.6	182.1	54.3	30.1	31.6
105°	218.8	226.9	160.8	30.8	32.3
107.5°	268.0	274.6	285.6	172.6	76.4
110°	317.2	323.1	331.2	306.9	201.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.2	369.3	377.4	384.0	382.6
115°	410.5	414.9	421.5	428.8	431.8
117.5°	456.0	461.1	464.8	470.7	471.4
120°	497.8	504.4	506.7	512.5	512.5
122.5°	540.4	545.6	548.5	552.2	552.9
125°	578.6	584.5	587.4	588.9	590.4
127.5°	616.8	622.7	626.3	628.5	627.1
130°	652.0	657.9	660.8	663.8	662.3
132.5°	685.8	691.7	693.9	696.8	694.6
135°	720.3	724.7	727.7	729.9	727.7
137.5°	749.7	755.6	757.0	760.7	759.2
140°	779.1	783.5	785.7	788.6	787.1
142.5°	806.2	810.6	812.8	815.0	812.8
145°	831.2	836.3	837.8	839.3	839.3
147.5°	855.4	859.1	860.6	862.0	858.4
150°	877.5	879.7	881.1	882.6	880.4
152.5°	897.3	898.0	898.8	901.7	898.0
155°	915.6	914.2	914.9	918.6	914.2
157.5°	930.3	930.3	929.6	934.0	928.1
160°	943.5	942.8	942.1	946.5	941.3
162.5°	956.0	953.8	953.1	958.2	953.8
165°	965.6	963.4	962.6	968.5	963.4
167.5°	973.7	970.7	970.7	976.6	970.7
170°	980.3	977.3	977.3	983.2	977.3
172.5°	984.7	981.0	981.7	987.6	981.0
175°	988.3	984.7	985.4	990.5	984.7
177.5°	989.8	986.1	986.9	992.7	985.4
180°	988.3	988.3	988.3	988.3	988.3

(END OF REPORT)