

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: P1012078

Luminaire Tested: S123DIP-B775D805UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012078
REPORT IS A COMBINATION OF REPORTS P990465 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

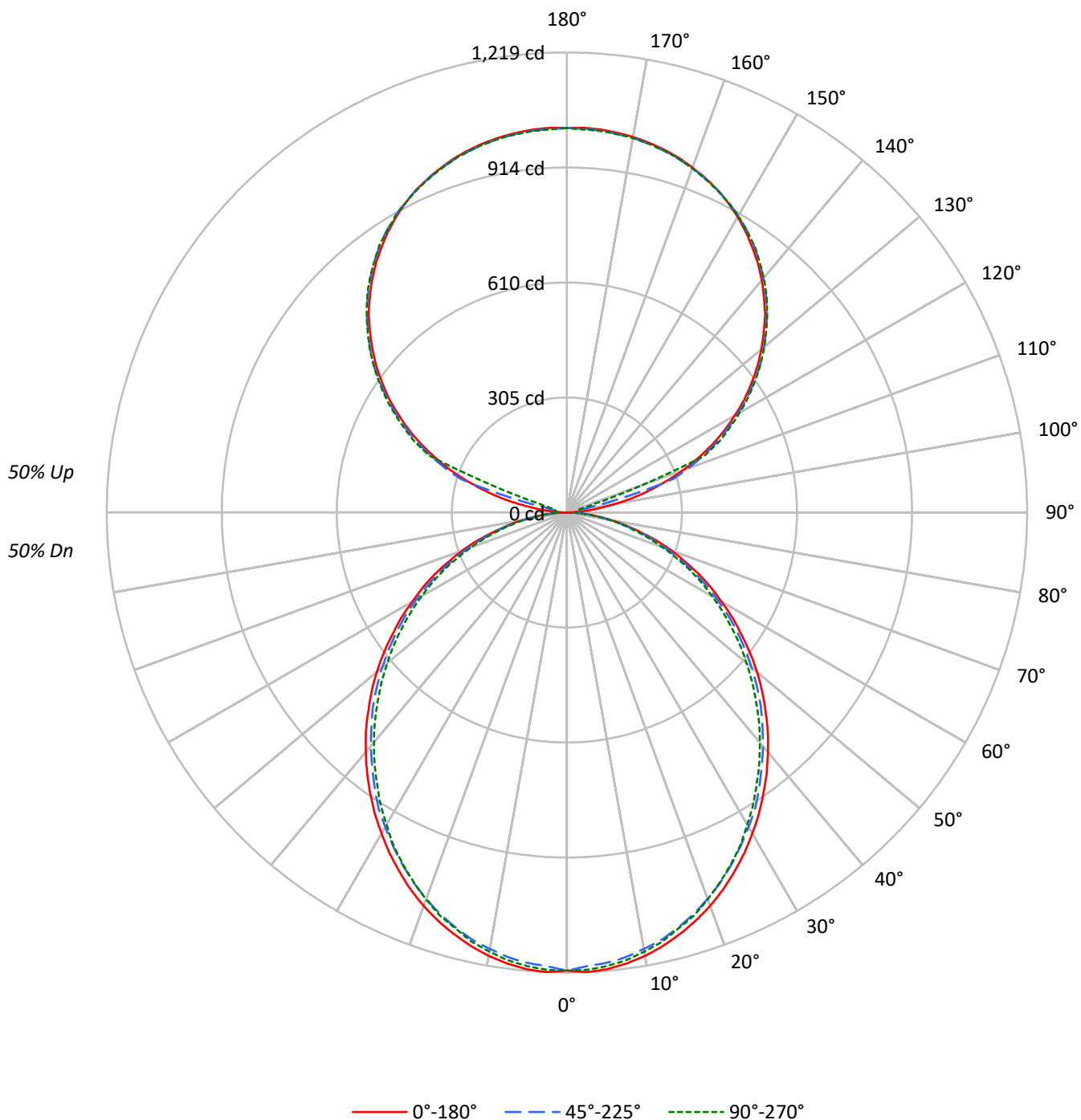
Lumens per Lamp: N/A
Luminaire Lumens: 6267.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57
1	98	93	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	29
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13065	13065	13065
5°	13097	12615	12595
10°	12981	12187	12063
15°	12801	11744	11481
20°	12593	11250	10906
25°	12326	10730	10290
30°	12033	10192	9643
35°	11726	9642	9000
40°	11405	9065	8367
45°	11051	8502	7706
50°	10692	7875	7042
55°	10230	7222	6369
60°	9756	6501	5654
65°	9309	5723	4908
70°	8667	4858	4038
75°	7741	3846	3135
80°	6688	2702	2217
85°	5216	1454	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.8
10°-20°	323.1	5.2
20°-30°	477.2	7.6
30°-40°	557.3	8.9
40°-50°	560.3	8.9
50°-60°	492.2	7.9
60°-70°	366.6	5.8
70°-80°	208.6	3.3
80°-90°	61.3	1.0
90°-100°	35.9	0.6
100°-110°	173.7	2.8
110°-120°	425.7	6.8
120°-130°	540.4	8.6
130°-140°	577.3	9.2
140°-150°	539.8	8.6
150°-160°	435.4	6.9
160°-170°	281.0	4.5
170°-180°	96.8	1.5
0°-30°	914.7	14.6
0°-40°	1472.1	23.5
0°-60°	2524.5	40.3
0°-90°	3161.0	50.4
90°-120°	635.3	10.1
90°-150°	2292.7	36.6
90°-180°	3106.0	49.6
0°-180°	6267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1215	1210	1198	1209	1206	115
15°	1156	1152	1139	1147	1141	326
25°	1050	1044	1030	1031	1028	484
35°	908	902	888	882	877	568
45°	744	740	726	714	709	574
55°	565	564	550	538	533	506
65°	385	380	370	361	358	380
75°	204	199	196	191	188	217
85°	54	52	52	50	50	58
90°	1	8	18	21	23	6
95°	46	15	24	29	29	55
105°	226	234	166	32	33	239
115°	423	428	434	442	445	418
125°	596	602	606	607	609	533
135°	742	747	750	752	750	572
145°	857	862	864	865	865	536
155°	944	942	943	947	942	435
165°	995	993	992	998	993	281
175°	1019	1015	1016	1021	1015	97
180°	1019	1019	1019	1019	1019	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1219.0	1214.8	1203.4	1213.8	1212.8
5°	1214.8	1209.6	1198.2	1208.6	1206.5
7.5°	1205.5	1200.2	1188.8	1198.2	1197.1
10°	1192.9	1187.7	1174.1	1183.5	1181.5
12.5°	1176.2	1172.1	1159.5	1165.8	1164.8
15°	1156.4	1152.2	1138.7	1147.0	1140.7
17.5°	1134.5	1129.3	1115.7	1122.0	1119.9
20°	1109.4	1103.2	1089.6	1093.8	1090.7
22.5°	1081.3	1075.0	1061.4	1064.6	1060.4
25°	1049.9	1043.7	1030.1	1031.2	1028.0
27.5°	1017.6	1011.3	996.7	997.8	994.6
30°	982.1	976.9	962.3	962.3	955.0
32.5°	946.6	939.3	928.9	921.6	918.4
35°	908.0	901.7	888.2	881.9	876.7
37.5°	869.4	861.0	847.5	840.2	837.0
40°	828.7	822.4	807.8	799.5	795.3
42.5°	788.0	780.7	766.1	757.7	753.5
45°	744.1	740.0	726.4	713.9	708.7
47.5°	701.4	695.1	682.6	670.0	665.9
50°	657.5	652.3	638.7	627.3	621.0
52.5°	611.6	608.5	593.9	584.5	578.2
55°	564.6	563.6	550.0	538.5	533.3
57.5°	520.8	516.6	506.2	495.8	489.5
60°	472.8	471.7	459.2	449.8	444.6
62.5°	430.0	426.9	414.3	404.9	401.8
65°	385.1	379.9	369.5	361.1	358.0
67.5°	337.1	332.9	324.6	317.3	313.1
70°	294.3	288.1	281.8	274.5	269.3
72.5°	249.4	245.3	238.0	231.7	229.6
75°	203.5	199.3	196.2	191.0	187.9
77.5°	162.8	160.7	156.6	152.4	152.4
80°	123.2	120.0	117.9	116.9	116.9
82.5°	84.5	84.5	84.5	82.5	81.4
85°	54.3	52.2	52.2	50.1	50.1
87.5°	27.1	24.0	23.0	21.9	21.9
90°	0.8	8.3	18.2	21.2	22.7
92.5°	17.4	12.9	19.7	25.0	25.7
95°	46.2	15.1	23.5	28.8	28.8
97.5°	84.0	62.8	24.2	30.3	31.0
100°	127.9	143.1	25.0	31.0	31.8
102.5°	177.9	187.7	56.0	31.0	32.5
105°	225.6	233.9	165.8	31.8	33.3
107.5°	276.3	283.1	294.4	177.9	78.7
110°	327.0	333.0	341.4	316.4	208.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.4	380.7	389.1	395.9	394.4
115°	423.1	427.7	434.5	442.0	445.1
117.5°	470.1	475.3	479.1	485.2	485.9
120°	513.2	520.0	522.3	528.3	528.3
122.5°	557.1	562.4	565.4	569.2	570.0
125°	596.5	602.5	605.5	607.1	608.6
127.5°	635.8	641.9	645.7	647.9	646.4
130°	672.2	678.2	681.2	684.3	682.7
132.5°	707.0	713.0	715.3	718.3	716.1
135°	742.5	747.1	750.1	752.4	750.1
137.5°	772.8	778.9	780.4	784.2	782.7
140°	803.1	807.6	809.9	812.9	811.4
142.5°	831.1	835.6	837.9	840.2	837.9
145°	856.8	862.1	863.7	865.2	865.2
147.5°	881.8	885.6	887.1	888.6	884.8
150°	904.5	906.8	908.3	909.8	907.6
152.5°	925.0	925.7	926.5	929.5	925.7
155°	943.9	942.4	943.1	946.9	942.4
157.5°	959.0	959.0	958.3	962.8	956.8
160°	972.6	971.9	971.1	975.7	970.4
162.5°	985.5	983.2	982.5	987.8	983.2
165°	995.4	993.1	992.3	998.4	993.1
167.5°	1003.7	1000.7	1000.7	1006.7	1000.7
170°	1010.5	1007.5	1007.5	1013.5	1007.5
172.5°	1015.0	1011.3	1012.0	1018.1	1011.3
175°	1018.8	1015.0	1015.8	1021.1	1015.0
177.5°	1020.3	1016.6	1017.3	1023.4	1015.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)