

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: P1012035

Luminaire Tested: S123DIP-B775D585UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012035
REPORT IS A COMBINATION OF REPORTS P990407 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

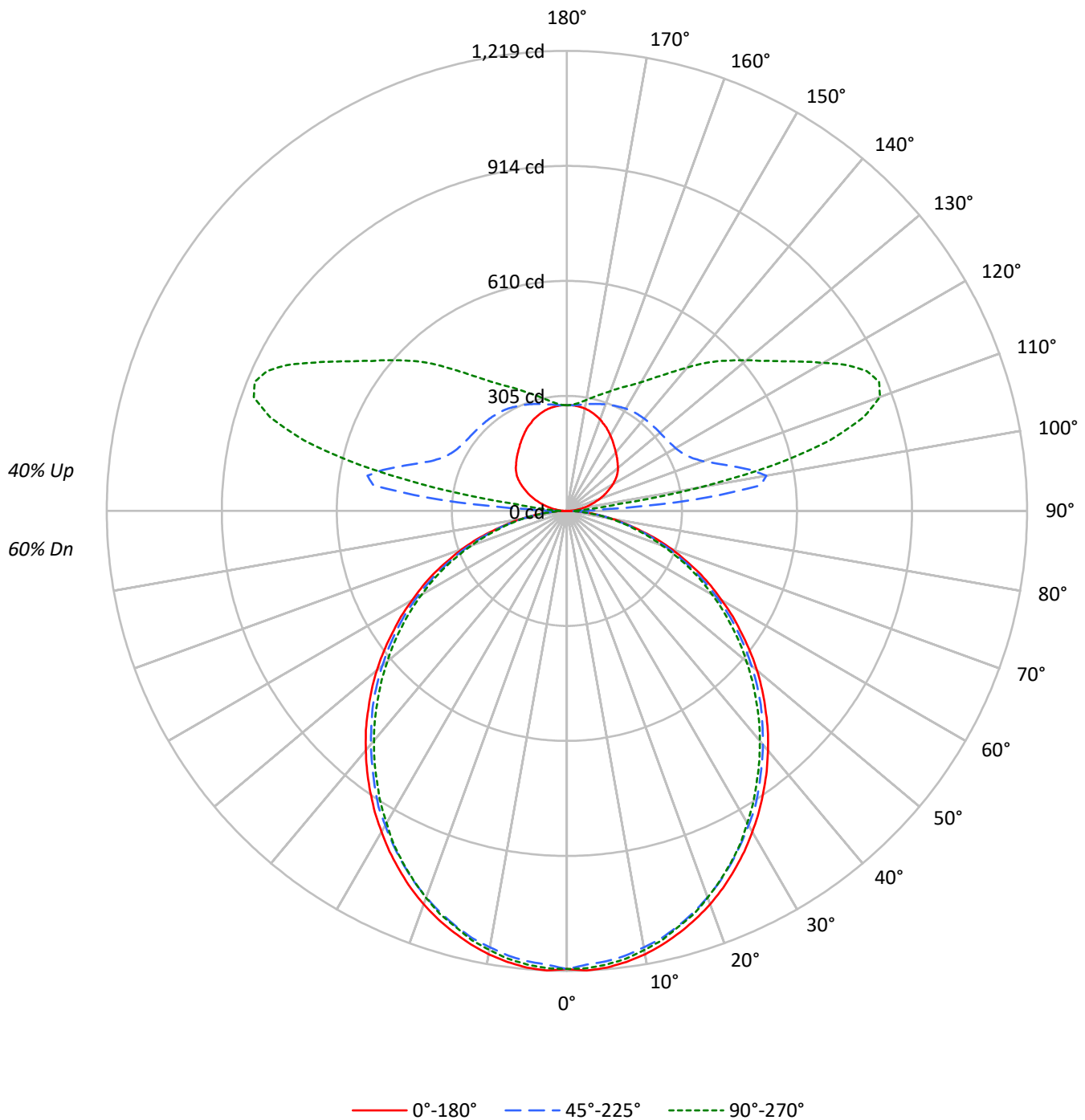
Lumens per Lamp: N/A
Luminaire Lumens: 5270.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	58	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39
4	76	65	57	51	71	61	54	48	53	48	43	47	42	39	40	37	34
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	30
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	27	24	21
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	22	19
10	48	36	28	24	45	34	27	23	30	25	21	27	22	19	24	20	17

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	2.2
10°-20°	323.1	6.1
20°-30°	477.2	9.1
30°-40°	557.3	10.6
40°-50°	560.3	10.6
50°-60°	492.2	9.3
60°-70°	366.6	7.0
70°-80°	208.6	4.0
80°-90°	60.9	1.2
90°-100°	159.1	3.0
100°-110°	444.6	8.4
110°-120°	433.5	8.2
120°-130°	345.2	6.5
130°-140°	272.5	5.2
140°-150°	203.3	3.9
150°-160°	141.8	2.7
160°-170°	83.3	1.6
170°-180°	27.1	0.5
0°-30°	914.7	17.4
0°-40°	1472.1	27.9
0°-60°	2524.5	47.9
0°-90°	3160.6	60.0
90°-120°	1037.2	19.7
90°-150°	1858.1	35.3
90°-180°	2110.0	40.0
0°-180°	5270.9	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	7	14	16	16	5
95°	19	63	336	98	66	20
105°	66	97	456	797	721	70
115°	116	145	348	764	876	115
125°	162	191	325	589	691	143
135°	189	226	321	485	560	146
145°	216	247	317	398	438	135
155°	245	265	306	348	363	113
165°	268	276	294	311	317	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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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°	1.1	6.8	14.2	15.8	16.4
92.5°	8.5	34.0	105.4	36.0	30.0
95°	19.3	62.6	336.0	98.0	65.7
97.5°	30.6	71.7	516.7	246.5	134.9
100°	41.9	79.0	536.6	515.6	355.3
102.5°	53.8	87.6	499.7	690.4	562.6
105°	65.7	97.2	455.5	796.6	720.7
107.5°	78.2	108.5	416.5	843.4	823.8
110°	91.8	120.2	384.2	844.8	882.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.3	132.4	362.6	812.8	894.7
115°	116.2	144.8	348.5	764.0	876.5
117.5°	128.1	156.6	338.8	711.9	836.9
120°	140.5	168.6	332.6	662.6	784.7
122.5°	151.3	179.8	328.6	623.8	736.0
125°	161.5	190.6	325.2	589.2	691.3
127.5°	169.4	200.8	323.5	561.0	652.7
130°	176.8	210.0	321.8	534.8	621.0
132.5°	182.4	218.2	321.3	510.5	589.8
135°	189.2	225.8	320.7	485.2	560.4
137.5°	195.5	232.0	319.6	461.4	529.2
140°	201.7	237.7	319.0	438.2	496.3
142.5°	208.5	242.8	317.9	417.0	465.7
145°	215.9	247.3	316.7	398.0	438.0
147.5°	223.2	252.2	315.0	383.4	414.2
150°	230.6	256.1	312.8	370.3	393.8
152.5°	238.0	260.4	309.9	359.0	376.8
155°	245.3	264.6	306.5	348.5	363.2
157.5°	251.0	268.3	303.7	338.2	350.2
160°	257.8	271.4	300.3	328.9	337.7
162.5°	262.9	273.6	296.9	320.1	326.4
165°	268.0	275.6	293.5	311.4	316.7
167.5°	272.0	277.4	290.1	303.7	307.1
170°	275.4	278.2	286.7	296.9	298.6
172.5°	277.6	279.0	283.9	291.0	290.7
175°	279.3	279.6	281.6	285.6	285.0
177.5°	280.5	279.9	279.9	282.2	281.0
180°	279.9	279.9	279.9	279.9	279.9

(END OF REPORT)