

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: P1012084

Luminaire Tested: S123DIP-B775D805UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012084
REPORT IS A COMBINATION OF REPORTS P990486 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

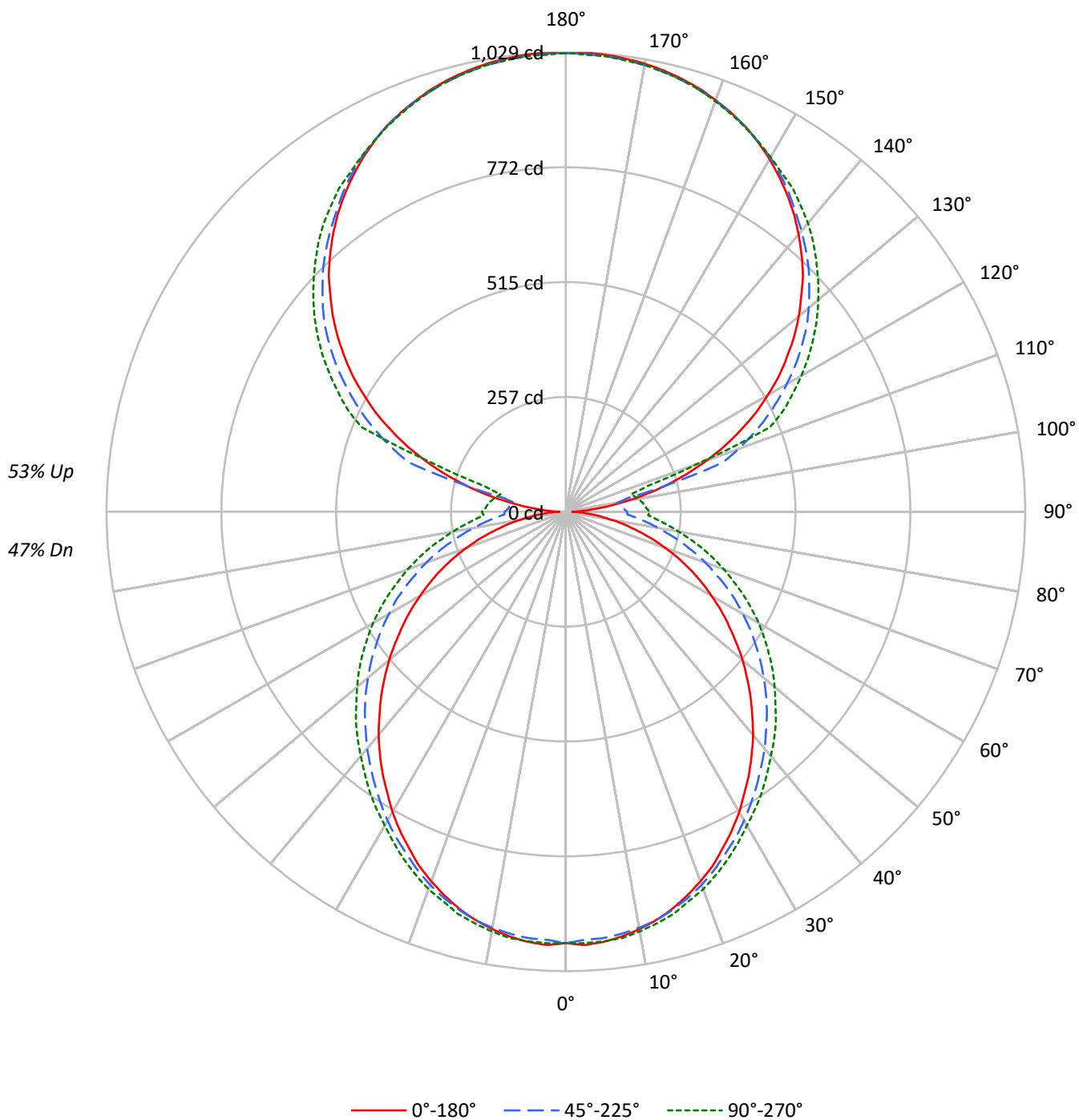
Lumens per Lamp: N/A
Luminaire Lumens: 6382.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47	47	47
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43	37	37	37
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35	30	30	30
3	79	69	62	55	72	64	57	52	53	48	44	44	40	37	35	32	30	25	25	25
4	72	61	53	47	66	56	49	43	47	42	37	39	34	31	31	28	25	21	21	21
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22	18	18	18
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16	16	16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17	14	14	14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15	13	13	13
9	49	36	29	23	44	33	27	22	28	23	19	24	19	16	19	16	14	11	11	11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.4
10°-20°	261.3	4.1
20°-30°	390.7	6.1
30°-40°	466.5	7.3
40°-50°	488.1	7.6
50°-60°	458.0	7.2
60°-70°	382.6	6.0
70°-80°	273.6	4.3
80°-90°	164.9	2.6
90°-100°	138.5	2.2
100°-110°	250.4	3.9
110°-120°	479.6	7.5
120°-130°	573.7	9.0
130°-140°	595.1	9.3
140°-150°	547.2	8.6
150°-160°	439.2	6.9
160°-170°	283.4	4.4
170°-180°	97.7	1.5
0°-30°	743.6	11.7
0°-40°	1210.1	19.0
0°-60°	2156.2	33.8
0°-90°	2977.2	46.6
90°-120°	868.5	13.6
90°-150°	2584.5	40.5
90°-180°	3405.0	53.4
0°-180°	6382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	14	74	137	176	188	12
95°	58	68	128	166	176	65
105°	236	270	246	140	152	250
115°	432	449	494	527	538	427
125°	605	611	644	668	677	541
135°	751	755	769	790	793	578
145°	865	870	871	881	885	542
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°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	14.5	73.7	137.2	176.1	188.1
92.5°	30.2	70.9	130.4	170.4	180.7
95°	58.2	67.9	127.9	165.8	176.3
97.5°	95.2	111.8	122.3	160.0	171.3
100°	138.5	187.5	116.8	153.4	164.7
102.5°	187.8	227.2	141.7	146.0	158.0
105°	235.9	269.6	246.1	140.5	151.5
107.5°	286.1	315.0	369.6	280.4	189.9
110°	336.1	361.2	411.7	413.8	313.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.0	405.0	453.4	486.7	494.6
115°	432.1	449.3	494.0	526.9	538.4
117.5°	479.4	493.2	532.8	564.1	573.3
120°	521.9	534.0	571.0	601.3	608.7
122.5°	566.1	573.6	609.2	636.3	644.4
125°	604.8	610.9	644.5	668.1	677.0
127.5°	644.5	649.5	679.7	703.1	708.8
130°	681.2	686.2	710.4	733.4	738.2
132.5°	715.2	721.3	739.4	761.4	766.5
135°	751.1	754.7	769.2	790.5	793.4
137.5°	781.6	786.7	795.6	816.3	820.0
140°	811.2	815.8	821.1	840.0	843.8
142.5°	839.4	842.9	845.2	861.2	864.1
145°	865.4	869.6	871.2	881.1	885.3
147.5°	889.5	893.3	894.8	899.6	899.9
150°	912.4	914.7	916.2	917.7	917.5
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)