

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: P1012104

Luminaire Tested: S123DIP-B775D805UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012104
REPORT IS A COMBINATION OF REPORTS P990509 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB40-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

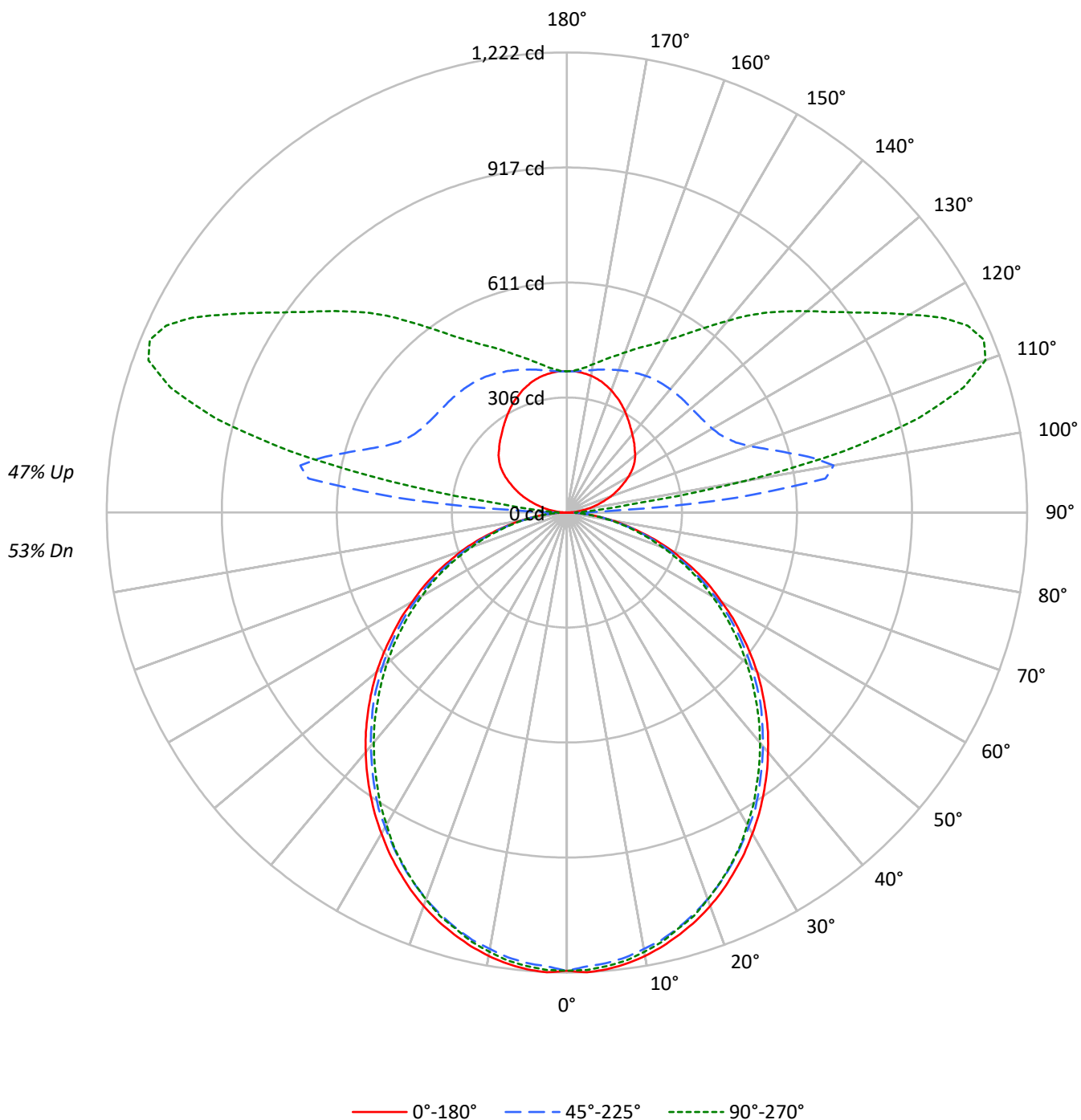
Lumens per Lamp: N/A
Luminaire Lumens: 5997.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		71	71	71		59
1	98	94	90	87	91	87	84	81	74	72	70		63	61	59		52
2	90	82	76	71	83	76	71	66	65	61	58		55	52	49		46
3	82	72	65	59	75	67	61	55	57	52	48		49	45	42		40
4	75	64	56	50	69	59	52	47	51	46	41		43	39	36		36
5	69	57	49	43	63	53	46	40	46	40	36		39	34	31		32
6	63	51	43	37	58	48	40	35	41	35	31		35	31	27		29
7	58	46	38	32	54	43	36	31	37	32	27		32	27	24		27
8	54	42	34	29	50	39	32	27	34	28	24		29	25	21		25
9	50	38	31	26	47	36	29	24	31	26	22		27	22	19		23
10	47	35	28	23	44	33	26	22	29	23	20		25	20	17		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13103	13103	13103
5°	13135	12651	12631
10°	13018	12222	12097
15°	12837	11777	11514
20°	12630	11282	10937
25°	12361	10762	10320
30°	12067	10221	9670
35°	11760	9669	9025
40°	11437	9091	8391
45°	11083	8527	7728
50°	10723	7898	7063
55°	10259	7243	6387
60°	9783	6520	5671
65°	9336	5738	4922
70°	8693	4872	4048
75°	7764	3858	3143
80°	6705	2712	2223
85°	5225	1456	1113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.9
10°-20°	324.0	5.4
20°-30°	478.6	8.0
30°-40°	558.9	9.3
40°-50°	561.9	9.4
50°-60°	493.6	8.2
60°-70°	367.6	6.1
70°-80°	209.2	3.5
80°-90°	61.6	1.0
90°-100°	213.1	3.6
100°-110°	595.7	9.9
110°-120°	580.8	9.7
120°-130°	462.5	7.7
130°-140°	365.1	6.1
140°-150°	272.4	4.5
150°-160°	190.0	3.2
160°-170°	111.6	1.9
170°-180°	36.3	0.6
0°-30°	917.4	15.3
0°-40°	1476.3	24.6
0°-60°	2531.7	42.2
0°-90°	3170.1	52.9
90°-120°	1389.6	23.2
90°-150°	2489.6	41.5
90°-180°	2828.0	47.2
0°-180°	5997.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1218	1213	1202	1212	1210	116
15°	1160	1156	1142	1150	1144	327
25°	1053	1047	1033	1034	1031	485
35°	911	904	891	884	879	570
45°	746	742	728	716	711	576
55°	566	565	552	540	535	507
65°	386	381	370	362	359	381
75°	204	200	197	192	188	218
85°	54	52	52	50	50	58
90°	2	9	19	21	22	6
95°	26	84	450	131	88	27
105°	88	130	610	1067	966	94
115°	156	194	467	1024	1174	154
125°	216	255	436	790	926	192
135°	254	303	430	650	751	196
145°	289	331	424	533	587	181
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.3	1217.3	1217.3	1217.3	1217.3
2.5°	1222.5	1218.3	1206.8	1217.3	1216.2
5°	1218.3	1213.1	1201.6	1212.0	1209.9
7.5°	1208.9	1203.7	1192.1	1201.6	1200.5
10°	1196.3	1191.1	1177.5	1186.9	1184.8
12.5°	1179.6	1175.4	1162.8	1169.1	1168.1
15°	1159.7	1155.5	1141.9	1150.3	1144.0
17.5°	1137.7	1132.5	1118.9	1125.2	1123.1
20°	1112.6	1106.3	1092.7	1096.9	1093.8
22.5°	1084.3	1078.1	1064.5	1067.6	1063.4
25°	1052.9	1046.7	1033.1	1034.1	1031.0
27.5°	1020.5	1014.2	999.6	1000.6	997.5
30°	984.9	979.7	965.0	965.0	957.7
32.5°	949.3	942.0	931.5	924.2	921.1
35°	910.6	904.3	890.7	884.4	879.2
37.5°	871.9	863.5	849.9	842.6	839.4
40°	831.0	824.8	810.1	801.7	797.6
42.5°	790.2	782.9	768.2	759.9	755.7
45°	746.3	742.1	728.5	715.9	710.7
47.5°	703.4	697.1	684.5	672.0	667.8
50°	659.4	654.2	640.6	629.0	622.8
52.5°	613.3	610.2	595.5	586.1	579.8
55°	566.2	565.2	551.6	540.1	534.8
57.5°	522.3	518.1	507.6	497.2	490.9
60°	474.1	473.1	460.5	451.1	445.9
62.5°	431.2	428.1	415.5	406.1	403.0
65°	386.2	381.0	370.5	362.1	359.0
67.5°	338.1	333.9	325.5	318.2	314.0
70°	295.2	288.9	282.6	275.3	270.0
72.5°	250.2	246.0	238.6	232.4	230.3
75°	204.1	199.9	196.8	191.5	188.4
77.5°	163.3	161.2	157.0	152.8	152.8
80°	123.5	120.4	118.3	117.2	117.2
82.5°	84.8	84.8	84.8	82.7	81.6
85°	54.4	52.3	52.3	50.2	50.2
87.5°	27.2	24.1	23.0	22.0	22.0
90°	1.5	9.2	19.0	21.2	22.0
92.5°	11.4	45.6	141.2	48.2	40.2
95°	25.8	83.9	450.2	131.4	88.1
97.5°	41.0	96.1	692.3	330.2	180.7
100°	56.2	105.9	718.9	690.8	476.0
102.5°	72.1	117.3	669.6	925.0	753.8
105°	88.1	130.2	610.4	1067.4	965.6
107.5°	104.8	145.4	558.0	1130.0	1103.8
110°	123.0	161.0	514.7	1131.9	1182.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.7	177.2	485.9	1089.0	1198.7
115°	155.6	194.0	466.9	1023.7	1174.4
117.5°	171.6	209.9	454.0	953.9	1121.3
120°	188.3	225.8	445.6	887.8	1051.4
122.5°	202.7	241.0	440.3	835.8	986.1
125°	216.4	255.4	435.7	789.5	926.2
127.5°	227.0	269.2	433.5	751.6	874.5
130°	236.9	281.2	431.2	716.6	832.0
132.5°	244.4	292.2	430.4	684.0	790.3
135°	253.6	302.6	429.7	650.2	750.8
137.5°	261.9	310.9	428.2	618.4	709.0
140°	270.3	318.5	427.4	587.2	665.0
142.5°	279.4	325.3	425.9	558.8	624.0
145°	289.2	331.4	424.4	533.3	586.8
147.5°	299.1	337.8	422.1	513.6	554.9
150°	309.0	343.2	419.0	496.1	527.6
152.5°	318.8	348.8	415.3	480.9	504.8
155°	328.7	354.5	410.7	466.8	486.6
157.5°	336.3	359.5	406.9	453.2	469.2
160°	345.4	363.6	402.3	440.6	452.5
162.5°	352.2	366.6	397.8	428.9	437.3
165°	359.1	369.4	393.2	417.2	424.4
167.5°	364.4	371.6	388.7	406.9	411.5
170°	368.9	372.8	384.1	397.8	400.1
172.5°	372.0	373.9	380.3	389.8	389.4
175°	374.3	374.6	377.3	382.6	381.9
177.5°	375.8	375.0	375.0	378.1	376.5
180°	375.0	375.0	375.0	375.0	375.0

(END OF REPORT)